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The collection of materials provides enrichment activities for the fourth grade student. The teacher's section includes: suggestions for using the pupil materials, characteristics of the more able learner, a check list for identifying the more able learner, and an activities chart showing the overlapping use of various activities to aid in the teaching of several subjects. The pupil's section consists of sample copies of pupil materials such as puzzles, word games, scrambled sentences, and fill-in-the-blank exercises. The collections of materials fall under the general headings of arithmetic, language, science, and social studies.

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THE MORE CAPABLE LEARNER

GRADE 4

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Fresno City Unified School District
Fresno, California

FOR THE
MORE CAPABLE LEARNER
Grade 4

This collection of materials developed by teachers is an instructional aid to assist the teacher in providing enrichment activities for the more capable learner.

Developed by
More Capable Learner Committee

Hal Selders, Chairman

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M. C. L. Binder

TABLE OF CONTENTS

I. Teacher's Section

Suggestions for Using Pupil Materials

Characteristics of the More Able Learner

Checklist For Identifying the More Able Student

M.C.L. Activities Chart

II. Pupils' Section

Sample copies of pupil materials

1. Arithmetic
2. Language
3. Science
4. Social Studies
5. Miscellaneous

Answer sheets

SUGGESTIONS FOR USING PUPIL MATERIALS

1. Make the materials accessible to all pupils.

2. Stimulate interest by displaying activity sheets in boxes in front of a suitable bulletin board.

3. Display several sheets on various topics at one time. Change often.

4. Explain use of materials to all pupils. It is important that students know what materials are available, how these materials are to be used and when they may use them.

5. Allow pupils to correct their own work. Teachers may check over the work if they so desire.

6. Provide some type of record keeping. Card files or check sheets work well.

7. Set aside some time each week for students to report their accomplishments to the class. A regular check-up time is important to the success of this project.

8. Student worksheets should be mounted on tagboard or construction paper to make them last longer. Transparencies may be clipped to the worksheets to protect them.

9. All materials should be turned in to the building principal at the close of the school term and checked out to teachers in the fall.

CHARACTERISTICS OF THE MORE ABLE STUDENT*

High Academic Achievement (1, 3-5, 7-10, 12, 13)

The more able student shows as much unevenness in subject matter abilities as do other children, but his overall grade point average is usually high and is the best single predictor of college success. He requires less detailed and fewer repeated instructions, often anticipating them. He works readily with symbols such as words and numbers, in place of direct experience and the actual objects.

Advanced Vocabulary and Reading Level (1, 3-5, 7-10, 12, 13)

The more able student has a large vocabulary which he uses easily and accurately. He retains what he has heard or read without much rote or drill. He can read books that are one to two years in advance of the rest of the class. He usually reads at an early age.

Expressive Fine Arts Talent (1, 4, 5, 7-10, 12, 13)

The more able student's wide range of interests stems from his vivid imagination. He is able to solve problems in aesthetic fields and can visualize actions and things from descriptions. He frequently creates original stories, plays, poetry, tunes, and sketches. He can use materials, words, or ideas in new ways.

Wholesome Personal-Social Adjustment (1, 4, 5, 7-10, 12, 13)

The more able student adjusts easily to new associates and situations. He is alert, keenly observant, and responds quickly. He possesses a keen sense of humor and incorporates suggestions from others into his own thinking and actions. His companions are often one or two years older but they recognize his superior ability in planning, organizing, and promoting. He also displays evidence of emotional stability in ordinary behavior.

Early Physical Competence (1, 3, 5, 8-10, 12, 13)

The more able student is characterized by his early physical development. He has a tendency to be taller, heavier, and has fewer physical defects. Not only does he enjoy outdoor games preferred by average children, but tends to excel in these games. He usually enjoys superior health and, as a result, has fewer absences from school due to illness. He also possesses especially good eye-hand coordination.

Superior Intellectual Ability (1, 4, 8-10, 12)

The more able student exhibits superior ability in reasoning, generalizing, thinking logically, and comprehension. He is able to perform highly difficult mental tasks and to learn more rapidly and more easily than most children. This child also has a longer concentration span and is keenly aware of the processes of his environment.

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* The More Able Student by Ernest O. Buhler and Eugene N. Guirl, Vocational Guidance Quarterly Vol. 8, No. 4

Characteristics of the More Able Student (continued)

Effective Independent Work (1, 7-10, 12, 13)

The more able student displays his competence for effective independent work by criticizing himself and modifying his behavior accordingly. He possesses superior insight into problems, is not easily influenced, and is less prone to change his mind once an opinion is formed. His effectiveness is also displayed by applying learning from one situation to more difficult situations.

Persistent Curiosity (1, 3, 7, 9, 10, 12)

The more able student displays a deep seated interest in some subject or field. In an attempt to gratify this insatiable curiosity he may display a dislike for rote memory and busy work. He also enjoys using encyclopedias, dictionaries, maps, globes, and other references.

Strong Creative and Inventive Power (1, 4, 5, 8, 10, 12)

The more able student possesses high-powered intellectual curiosity, imagination, and creativity. He has unusual power to see new structures and processes and to express his vision in speaking, writing, art, music, or some other form. His work has freshness, vitality, and uniqueness. An individual may create new ideas and substances or he may invent and build new mechanical devices. He sometimes runs counter to tradition and is continually questioning the status quo. He may do the unexpected.

Special Scientific Ability (1, 4, 5, 8, 10, 12)

The more able student with scientific talent will use the scientific method of thinking. He will employ scientific research methods and will grasp scientific concepts in short periods of time. He will display a curiosity of the natural world. He is not easily discouraged by failure or experiments or projects and will seek causes and reasons for things. He will spend much time on special projects of his own such as making collections, constructing radios, and making electronic computers.

High Energy Level (1, 7, 9, 10, 12)

The more able student displays a high level of energy. He keeps active by undertaking and completing task after task. He participates in various extra-curricular activities, holding leadership roles in many, and frequently concentrates on long range, unattainable and poorly defined goals.

Demonstrated Leadership Ability (4, 5, 10, 12)

The more able student displays an ability to help a group reach its goals. He often will improve human relationships within a group and will achieve prominence by individual effort. He enters into activities with enthusiasm and is able to influence others to work towards desirable or undesirable goals. He can take charge of the group.

Well-Developed Mechanical Skills (4, 5, 10)

The more able student who possesses mechanical ability may be identified by unusual manipulative skills and spatial ability. He perceives a visual pattern complete with details, similarities, and differences. He excels on craft projects and is interested in mechanical gadgets, devices, and machines. He comprehends mechanical problems and puzzles and likes to draw plans and sketches of mechanical objects.

Department of Guidance and Testing

CHECKLIST FOR IDENTIFYING THE MORE ABLE STUDENT*

Name ____________________ School ____________________

Age: Years ____________ Months ____________ I.Q. ____________

Place a check mark (✓) on the scale at a point where you think the pupil under consideration rates in the characteristics named. Please make your estimate in relation to all other pupils in this age group.

	LOW	2	3	4	HIGH
High academic achievement					
Advanced vocabulary and reading level					
Expressive fine arts talent					
Wholesome personal-social adjustment					
Early physical competence					
Superior intellectual ability					
Effective work independently					
Persistent curiosity					
Strong creative and inventive power					
Special scientific ability					
High energy level					
Demonstrated leadership abilities					
Well-developed mechanical skills					

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* Taken from The More Able Student by E. O. Buhler and E. N. Guirl, Vocational Guidance Quarterly, Vol. 8, No. 4

M.C.L. ACTIVITIES CHART*

MUSIC-RHYTHMS	ARTS AND CRAFTS	
Study the foreign words used in musical notation. Read life stories of musicians. Dramatize stories portrayed in music. Listen to an opera. Report to class, using story of the opera. Write songs or poems. Set them to your own music. Organize a verse choir. Read poetry or prose aloud with a musical accompaniment.	Make charts with pictures to illustrate rules of grammar. Mount picture. List parts of speech found in it. Give it a title. Write a story and use some of the nouns, verbs, adjectives identified. Describe how certain pictures make you feel--in poetry or prose. Read stories of artists and master works. Interview local artists, sculptors, etc., by phone. Ask for a field trip to museum, art center, photography studio, advertising agency. Make book covers or folders for clippings, etc.	LANGUAGE ARTS
Make an illustration of the relationship of time notations in music to fractions. Use a metronome to compare speed, to show time variations of timetable, to establish a rhythmic pattern, to create a simple dance. Show that syncopation is a kind of arithmetic problem. Figure the cost to the school of an orchestra, band, chorus; include uniforms, instruments, music, etc.	Create patterns and designs with geometric figures. Make snowflake designs. Make scale drawings. Study some phase of architecture--blue-prints, landscape design, stresses and strains of building supports, areas, floor space ratio to window area. Figure amount of materials needed for class use of finger paint, clay mixes, etc. Study formulae used in mixing color chemicals for ceramics.	ARITHMETIC
Demonstrate different types of music from other parts of the world or other areas of this country. Make a collection of different types of songs, such as work songs, home songs, patriotic, love, and blues songs. Create a folk song based on an old folk tale. Show how the dances of the world affect our modern dances. Make a collection of rhythms used for folk dancing. Learn to do folk dances of the areas studied, giving attention to authentic costumes, etc.	Show how climate and environment affect the arts and crafts of the people. Design and decorate rooms in a home. Make a model of a home. Make tiles using designs of pioneers. Draw a family tree; put in as much geneology as you can. Make a book-plate for the family library. Collect pictures of the areas studied. Display them around the room and building. Weave, spin, dye, work in clay, and do other pioneer handicraft. Draw pictures, murals to illustrate plans of social studies. Make maps (use many different media).	SOCIAL STUDIES

*Adapted from the Portland Plan For More Capable Learners

MORE CAPABLE LEARNER ACTIVITIES LISTED IN OVERLAPPING SUBJECT AREAS

SOCIAL STUDIES	SCIENCE	
Write letters for specific information about news stories. Interview resource persons in person or by phone. Make written or oral reports on things that interest you. Listen to conversational Spanish, French, German, etc., records. Make a vocabulary chart for the class of foreign words or phrases used daily. Write stories or plays. Keep news-clipping file by subject. Collect clippings and pictures of subject you are interested in. Lead discussion groups.	Keep science diaries--"Birds I Have Identified," etc. Build specific vocabulary from prefixes and suffixes and word beginnings. Make reports of field trips to other classes. Interview resource people in person or by phone. Write radio scripts, stories, poems, TV scripts, etc. Relate the scientific method to the development of good study habits. Read biographies of great scientists, doctors, nurses, public health pioneers. Keep health-diary, record changes in weight, height, girth, etc. Arrange phone conference with a scientist you know. Follow one problem or curiosity to an answer each day.	LANGUAGE ARTS
Study foreign exchange. Study different methods used in Europe. Compute costs of trips from schedules. Using map, figure mileage for imaginary class trips. Use scale drawings. Construct models of homes or areas studied. Compute altitudes using surveyors' instruments. Make a graphic illustration of time zones across the nation.	Study system of measures. Learn how standards are set and maintained. Find uses for geometric figures in science. Learn to use computers. Visit office where IBM machines are used. Keep graphic record of rainfall, weather, barometric readings, wind velocity. Make problems about building a house. Learn to compute board feet. Study simple geometry and learn to compute the height of objects. Measure and record shadows--A.M., noon, P.M.	ARITHMETIC
Extension Make use of reference books, diaries, biographies, resource persons, and fugitive materials for extensive study of chosen area. Keep bibliographies of each area studied: Using filing cards and keep a permanent file for own use or for the use of other pupils. Study local, state and county history. Make scrapbook--homes, communites, shelter, transportation, food, etc. Make collections--pictures, clothing, materials, building materials, foods. Interview adults for historical information. Mount current events--locate on map.	Study different bird routes and migratory phenomenon. Show how each large area and each state has its own particular conservation problems. Study insurance policies which provide protection against storms, etc. Study insect, pest and plant disease controls and show how the different states are protecting their crops by enforcing strict border regulations. Read about the water divining rod and other superstitions. Study lightning tamers. Study rain makers in dry areas.	SOCIAL STUDIES

LANGUAGE ARTS	ARITHMETIC	
Extension Write plays, stories, poetry, diaries. Make spelling lists--homonyms, synonyms, antonyms. Study dictionary for derivation of words. Make Story Starter file. Study advertisements. Write pros and cons Make bibliographies. Do research. Write or read biographies to class Who's Who? Report orally. Read to class. Develop class newspaper. Make scrapbook of readings--records. Plan special day programs. Dramatize stories. Direct plays. Make dictionaries. Use thesaurus.	Read about history of numbers. Add words to reading and speaking vocabulary. Make oral and/or written reports on special math research. Operate school store. Practice being a salesman. Interview local storekeepers. Write reports, advertisements, etc Write evaluation of experiences.	LANGUAGE ARTS
Interview persons in industry and business to show need for good foundation in understanding of number facts. Write a play using numbers as characters. Dramatize lives of great mathematicians. Keep an arithmetic vocabulary list.	Extension Study other bases for numbers, 8, 10, etc. Keep temperature record. Work out algebraic formulae for various problems. Create number games to help the slow learner. Make fraction picture-charts. Keep a percentage-rating chart of batting averages of national ball players, class, or school team. Demonstrate new methods of learning the arithmetic facts by using such devices as Stern's number board, etc. Practice oral number games. Make budget. Study number systems.	ARITHMETIC
Make charts, lists, or write about our dependence upon other countries for daily activities and supplies. Begin with breakfast; bananas, cocoa, etc.--include the things we use at school such as the rubber in erasers, medical supplies, etc. Have dramatic play of historical events. Make oral reports on history, culture, ways of life. Make booklets--mottoes of states, lives of famous people, birthdays of famous people. Spell names of holidays. Write what each letter might stand for. Group pantomime situation for class to write about. Pretend to be inanimate object--fog, wind, leaf--write how they might feel.	Read maps; draw to scale. Show sectional (cutaway) view of the continent, Isthmus of Panama and Panama Canal, or of a volcano, or Grand Canyon. Show comparisons of altitudes, ages, etc. Make a time line showing where you fit in the history of the country studied. Use it to make comparative studies of events in different countries. Plan trips--distance and time. Compare speeds of transportation--land, water, air. Have dramatic play with money situation. Plan and play number games.	SOCIAL STUDIES

MUSIC-RHYTHMS	ARTS AND CRAFTS	
Make a study of great scientists to see if any of them were also good musicians. Do some research on the value of musical therapy. Study supersitions about music and point out their fallacies. Demonstrate the differences among the various instruments of the orchestra explaining the variations in tone. Use glass tumblers to create music. Explain. Study bell ringing and participate in a group of bell ringers. Explain to your classmates the scientific principle involved.	Analyze the rainbow and the spectrum. Show the difference between the colors in light and the colors in a paint box. Explain color-blindness and why certain colors are used for traffic signs and highway markings. Draw safety-campaign posters and pictures. Collect driftwood. Identify the kind of wood and use it in an artistic flower arrangement. Study photography. Develop and enlarge your own pictures and exhibit them. Draw the different types of clouds. Illustrate your science study, using a variety of media, i.e., pastel chalk birds, water color trees, India ink wash flowers.	SCIENCE
Extension Plan and produce a musical assembly program. Write original compositions for a simple instrument. Plan a listening program for the class, choosing music from the classics. Organize small ensembles--choral or instrumental. Attend local civic musicales, recitals, operas, ballet performances, etc. Record on a tape a musicale. Help plan and produce a dance program. Work out exercises and stretches for warming-up session in dance group.	Make rhythm instruments like gourds, tambourines, clappers, cymbals, marimbas, flutes, whistles, drums, banjo, castanets, maracas. Draw impressions of musical numbers. Illustrate scenes from great musical productions, operas, etc. Produce background music for art exhibit or tea.	MUSIC & RHYTHMS
Draw designs or pictures to musical accompaniment. Illustrate songs for cover of sheet music. Draw, paint, construct scenes for operetta. Design costumes for play or dance.	Extension Draw rainbows at top of paper. Write paragraph about each color. Cut pictures depicting feelings--happiness, fear. Study equipment, other media, techniques. Attain more skill in art know-how. Visit art museum and art department of the library, ceramic studio, etc. See films, exhibits, etc. Paint for relaxation. Make gift cards, Christmas cards, woven gifts, etc. Make puppets. Make ink blot designs. Study art and artists. Do various kinds of printing--make posters. Create designs.	ARTS & CRAFTS

SOCIAL STUDIES	SCIENCE	
Make a survey of conservation needs in the community. Follow through. Show how science has contributed to better living--home appliances, medicines, travel, recreation, communications, etc. Study the new methods of communication and how they are affecting the lives of the people of the world. Show how such things as the transistors are changing our way of life.	**Extension** Experiment--Demonstrate experiments for other classes. Make extensive use of equipment like microscopes, microscope projector, telescopes, kits on soil, weather, chemistry, machines, etc., plastic models of parts of the body. Plant seedling trees, seeds, bulbs. Make an aquarium, a terrarium, glass-side box for root study. Maintain science corner in the room or in the school hall--exhibit. Have a science fair and exhibit projects. Work on inventions. Collect rocks, leaves, nests, insects. (must identify) Care for pets and plants. Find current events--re: science. Construct tree ring time line.	SCIENCE
Listen to, play, sing music of the country studied. Read about the country's musicians and composers. Learn and teach the dances of the country. Create dances using some of the characteristic dance steps of the country. Know and tell the stories behind the folk songs, using such books for reference as Spaeth's "A History of Popular Music," etc. Write an operetta based on folklore. Know and tell the story of some of the early pipe organs, reed organs, and pianos brought around the Horn or across the plains.	Create dances based on movements of machinery. Use a drum for rhythms. Create music typifying science concepts. Create a dance about nature or some scientific phenomenon. Listen to recordings of bird calls and animal sounds. Write music using bird calls as a basis.	MUSIC & RHYTHMS
Participate in local art and crafts festival. Draw murals, pictures, slides, etc. depicting life and surroundings of the area studied. Weave, using native designs. Experiment with different media to produce unusual textures. Produce a resource kit of your area to exchange with another part of the country. Draw pictures of your community to go in an exchange scrapbook for Jr. Red Cross. (These could be photographs you took.)	Construct desert terrarium, aquarium, etc. Make weather-measuring instruments and chart daily weather report. Make a papier-mâché volcano or relief map. Draw designs using science areas for subjects such as fish, ferns, animals. Sketch from nature--still life. Make nature blueprints, sun prints. Make papier-mâché animals and figures depicting various ages of man.	ARTS & CRAFTS

LANGUAGE ARTS	ARITHMETIC	
Study lives of great scientists and report studies in written or oral form. Make graphs, charts, scrapbooks, and vocabulary lists on different fields of science studied. Conduct panel discussions, hold debates, forums, etc. Interview home-town scientists. Write for current information from large companies like DuPont, Abbott Laboratories, Dairy Council, Science Research Associates, etc. Read and report articles found in Science News Letter and other scientific magazines. List state birds and flowers. Make booklets on science principles--water cycle, clouds, growing things.	Prepare illustrations of comparisons of liquid measures, dry measures, solids, etc. Use chart of caloric values of foods, figure food needs of classmates, parents, pets, etc. Figure the densities of different kinds of woods. Learn to use a slide rule. Experiment with the diet of pet rats. Accurately measure food intake, weight. Chart growth or loss of weight. Note other changes. Keep weather chart recording daily readings of temperature, barometric pressure, precipitation, etc. Work out problems of pulleys and other simple machines.	SCIENCE
Write stories to musical accompaniment. The stories may describe the musical feeling, or the music may be used solely to set the climate. Create the musical background for a puppet play or for another type of play. Write music for operetta or to accompany verse-speaking choir. Make up a musical travelogue. Choose records for background music and sound-effects for a play. Create dance to accompany verse-speaking choir.	Construct musical instruments which require arithmetic computation such as xylophone, marimba and other percussion instruments. Make a graph or chart showing the length of vibrations for each tone. Show the extremes of high and low tones which the human ear can hear. Compare with animals such as the dog and rat. Study some graphs which have been made of the human voice and other sounds.	MUSIC & RHYTHMS
Illustrate stories, poems, songs, book covers, etc. Make bookmarks, book plates, book covers, dust covers for books, notebooks, etc. Study early books, illuminated lettering. Construct stage properties, paint scenery for a play. Design costumes for play. Make puppets to fit original story or play. Make scenery. Arrange bulletin boards. Make classbook. Use customs--cut off captions or conversation. Write own versions. Write directions of an art lesson for another class.	Construct charts, graphs, tables, games, flash cards, and other graphic pictures for rapid learning of number facts. Make an abacus. Make a decorative chart to record class data such as class officers, books read, batting averages, etc. PORTLAND PLAN FOR MORE CAPABLE LEARNER	ARTS & CRAFTS

Fresno City Unified School District

-- --

T - A - 1

SCRAMBLED SENTENCES ABOUT NUMBERS

Here are some sentences about arithmetic. The words are mixed up. Make a good sentence by putting the words in correct order. Example: 1 is done for you.

Write your answers on another piece of paper.

1. one equals ten ones ten

   One ten equals ten ones.

2. is nine more eight one than

   Nine is one more than eight.

3. nickels equal two dime one

   Two nickels equal one dime.

4. subtract you are how many find left to

   You subtract to find how many are left.

5. has 12 ten 1 number the

   The number 12 has 1 ten.

6. 12 foot a equal inches are to

   12 inches are equal to a foot.

7. is the subtrahend of the difference and the sum the minuend

   The sum of the difference and the subtrahend is the minuend.

8. to subtract you are needed many more how find

   You subtract to find how many more are needed.

9. when a number means zero called is not any it

   When a number means not any, it is called zero.

10. VI for stand and number the 6 same

    VI and 6 stand for the same number.

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7-19-62
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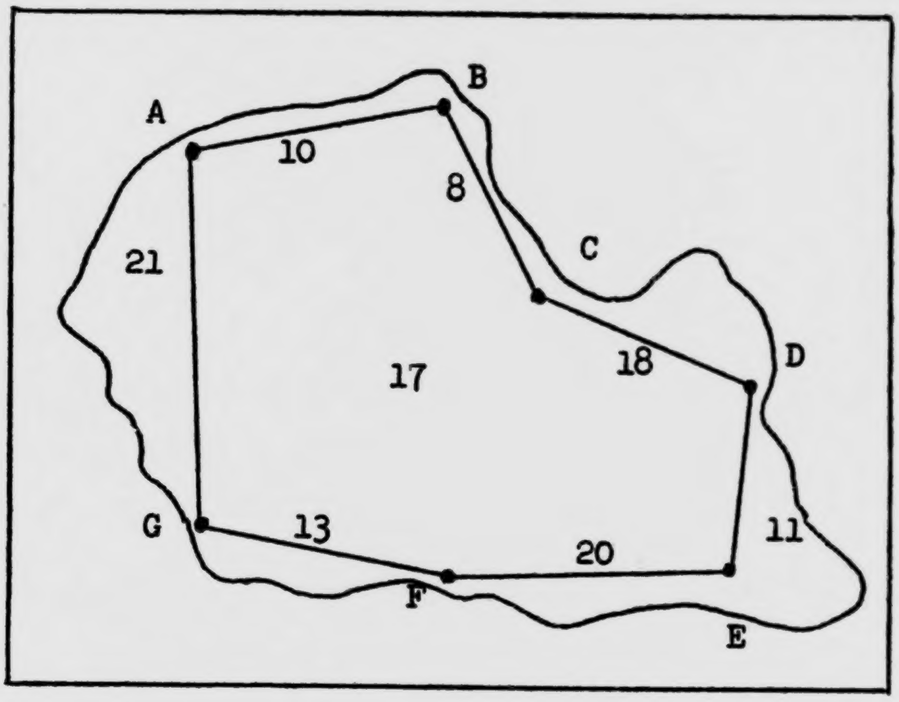
PROBLEMS AROUND US



This is a map of Sailfish Island. The numbers show the miles between towns. The letters stand for the following towns.

A - Northside
B - Surfville
C - Alma
D - Ocean View
E - Seashore
F - Mountain Dale
G - Westside

Write your answers on another piece of paper.

1. What is the distance from Alma to Westside by way of Northside? 39 mi.
2. What is the shortest distance by road from Northside to Seashore? 47 mi.
3. How much shorter is it to go from Surfville to Westside through Northside than through Mountain Dale? 7 mi.
4. What is the distance by road around the Island? Go through each town. 101 mi.
5. If a new highway 35 miles long were built from Westside to Ocean View, how many miles shorter would the trip be than going through Seashore?

   Answers will vary.

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QUESTIONS ABOUT NUMBERS

Write your answers on another piece of paper.

1. What is the largest number that can be added to 5 so that the sum is a 1-place number? 4
2. What is the smallest number you can add to 4 so the sum is a 2-place number? 6
3. What are the two largest 1-place addends you can have whose sum is larger than 17 but less than 20? 9 + 9
4. Choose numbers from 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 to answer Ex. a, b, c, and d.
   a. Which three 1-place numbers have a sum larger than the sum of any other three 1-place numbers? 7, 8, & 9
   b. Which two 1-place numbers have the largest difference possible between any two 1-place numbers? 9 & 0
   c. Which two 1-place numbers have a sum greater than any other two 1-place numbers? 9 & 8
   d. Which two 1-place numbers have a sum less than any other two 1-place numbers? 0 & 1
5. What is the largest 2-place number with 4 tens that can be added to 45 without carrying? 44
6. What are the two largest different 2-place numbers between 20 and 30 whose sum is closest to 60? 29 & 28
7. Write all the 3-place numbers you can, using the digits 3, 5, and 7. You may not use the same digit twice for the same number.

   357, 375, 573, 537, 735, 753

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FOLLOW THE SIGNS

I **MULTIPLY**, **ADD**, **SUBTRACT** EACH TOP NUMBER BY SIDE NUMBER

	X 4	+ 3	- 2
2	8	11	9
3	12	15	13
1	4	7	5
5	20	23	21
8	32	35	32

II ADD THE COLUMNS OF ANSWERS

76 + 91 + 80 = 247

III ADD THE SUMS OF THE COLUMNS

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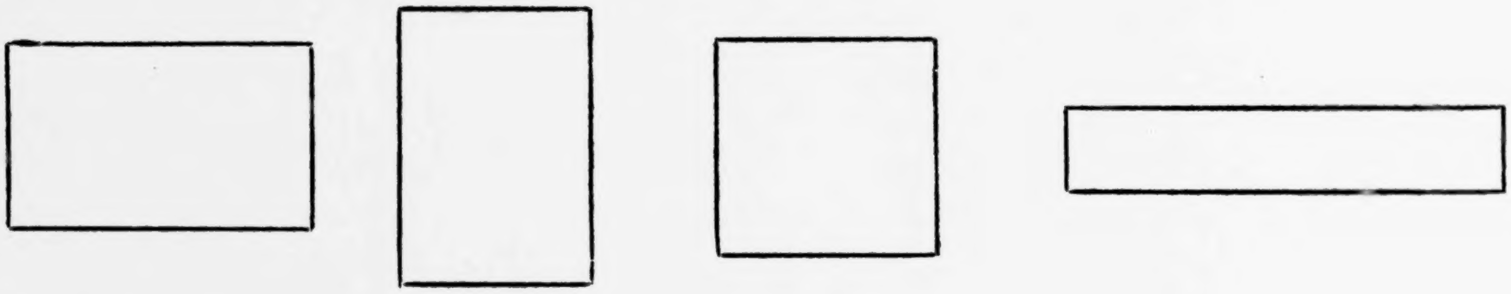
T - A - 5

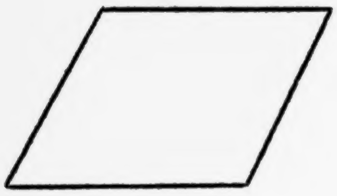
WHAT IS A RECTANGLE?



Write true if the statement is true of all rectangles.
Write some if the statement is true of only some rectangles.
Write false if the statement is false for all rectangles.

Write your answers on another piece of paper.

1. A rectangle has 4 straight-line segments for sides. true
2. A rectangle has the same length and width. some
3. A rectangle has opposite sides which are parallel. true
4. All four corners of a rectangle are square. true
5. All sides of a rectangle are the same length. some
6. A rectangle is longer than it is tall. some
7. A rectangle may be divided into 2 triangles. true
8. Two opposite sides of a rectangle meet. false
9. All squares are rectangles. true
10. Some rectangles are squares. true
11. Draw a four-sided figure with equal sides that is not a square.



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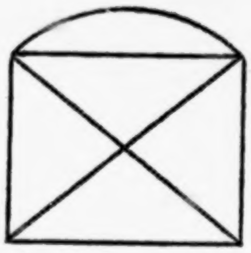
T - A - 6

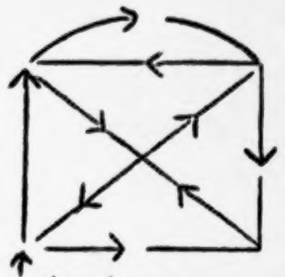
TRACING PUZZLES

Trace over this figure without breaking any of the rules below.

a. Do not lift your pencil from the paper.
b. Do not draw any part of a line segment but once.
c. Do not cross over any line.



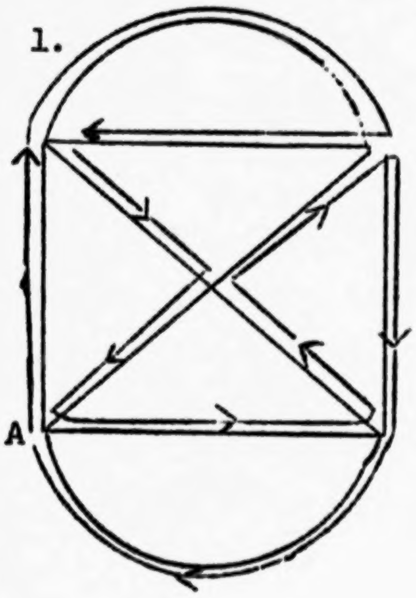
solution



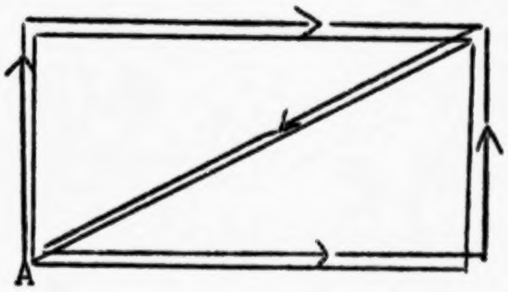
start up

Try these tracing puzzles. Start at A each time and follow the same rules as for the tracing above.

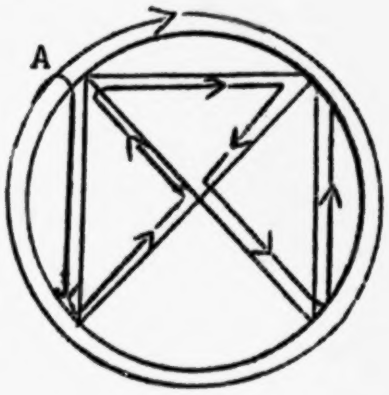
1.



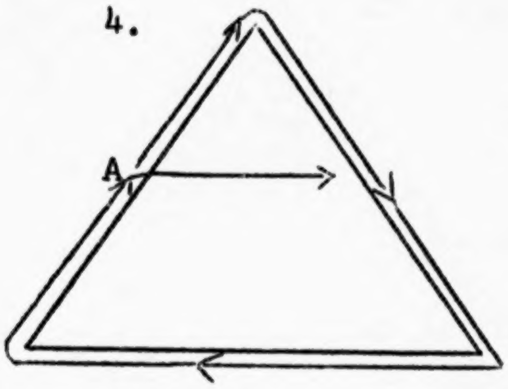
2.



3.

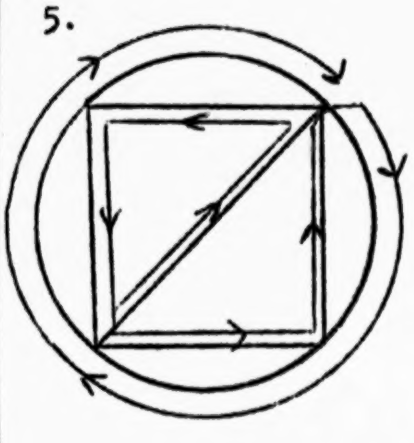


4.

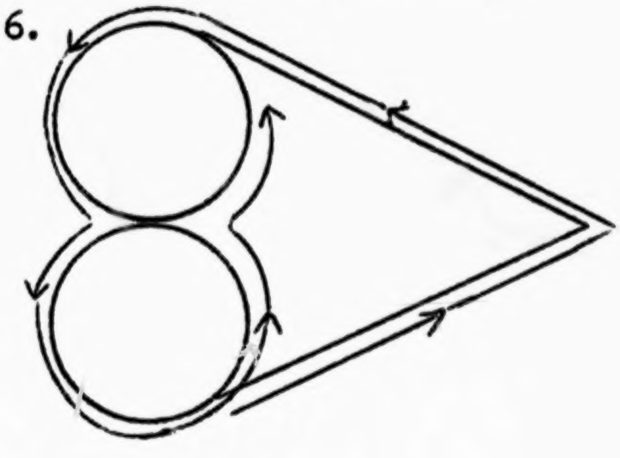


Trace these figures. One of them cannot be traced when following the rules. Try them all and don't give up too soon.

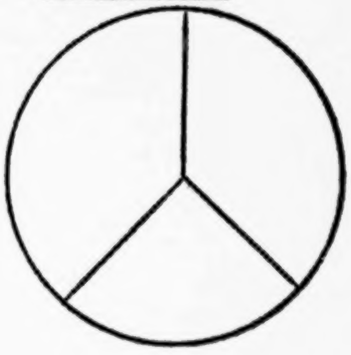
5.



6.



7. Impossible



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7-20-62
In4-T-C-En-50a

FIND THE NUMBER

Here are some exercises in finding the one number for which all the statements in each exercise are true. All the answers for exercises on this page are whole numbers. When you think you have found the answer, check back to see if it is correct.

Write your answers on another piece of paper.

1. What number is

   a. a 2-place number,
   b. between ten and twenty,
   c. larger than ten, and
   d. less than twice as much as six?

Number 11

2. What number is

   a. a 1-place number,
   b. between one and five,
   c. less than four, and
   d. greater than two?

Number 3

3. What number is

   a. between two tens and three tens,
   b. less than 2 tens and 9 ones,
   c. more than 2 tens and 7 ones,
   d. an even number?

Number 28

4. What number is

   a. between 2 hundreds and 3 hundreds,
   b. less than 2 hundreds and 3 tens and 6 ones,
   c. more than 2 hundreds and 3 tens and 4 ones,
   d. an odd number?

Number 235

5. What number is

   a. larger than 100,
   b. an even number,
   c. not a multiple of 6,
   d. a multiple of 7,
   e. less than 200,
   f. larger than 150,
   g. less than 170?

Number 154

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7-20-62

ODD AND EVEN NUMBERS

Write your answers on another piece of paper.

1. The four largest 3-place odd numbers are:

999 995

997 993

2. The four smallest 4-place even numbers are:

1000 1004

1002 1006

3. The four odd numbers closest to 8 x 126 are:

1011 1007

1009 1005

4. The four even numbers closest to 1,016 ÷ 8 are:

130 126

128 124

5. The four even numbers closest to 2 less than 1/2 of 134 are:

62 66

64 68

6. The four odd numbers closest to 7 x 392 are:

2,741 2,745

2,743 2,747

7. The four odd numbers closest to 6 more than 42 x 18 are:

759 763

761 765

8. The four odd numbers closest to 7 less than 1/3 of 921 are:

297 301

299 303

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7-20-62
In4-T-C-En-50a

FUN WITH NUMBER NAMES

Write your answers on another piece of paper.

Here is a new game. Below are other number names for 6, 2, 20 and 24 using three 2's:

a. 6 = 2 plus 2 plus 2
b. 2 = 2 plus 2 minus 2
c. 20 = 22 minus 2
d. 24 = 22 plus 2

The rules of the game are:
(a) use addition and subtraction;
(b) use place value.

1. With three 4's, write 4, 12, 40, 48.
   a. 4 = 4 + 4 - 4
   b. 12 = 4 + 4 + 4
   c. 40 = 44 - 4
   d. 48 = 44 + 4
2. With four 2's write 0, 4, 18, 22, 26, 220, 224.
   a. 0 = (2 - 2) +(2 - 2)
   b. 4 = (2 - 2) + (2 + 2)
   c. 18 = (22 - 2) - 2
   d. 22 = (22 - 2) + 2
   e. 26 = 22 + 2 + 2
   f. 220 = 222 - 2
   g. 224 = 222 + 2
3. With four 7's, write 14, 63, 91, 154, 770, 784.
   a. 14 = (7 + 7 + 7) - 7
   b. 63 = (77 - 7) - 7
   c. 91 = (77 + 7) + 7
   d. 154 = 77 + 77
   e. 770 = 777 - 7
   f. 784 = 777 + 7

EQUATIONS AND INEQUALITIES

Write your answers on another piece of paper.

We call $3 + 4 = 6 + 1$ an equation because $3 + 4$ and $6 + 1$ stand for the same number. Statements like $3 < 4$ and $4 > 3$ are not equations. They are called inequalities. Inequalities are written with the symbols $<$ and $>$. Inequalities tell about less than and greater than.

$<$ less than

$>$ greater than

1. Write the correct symbol, $=$ or $<$ or $>$, in each blank below:

a. $3 + 2 \;\underline{\;=\;}\; 1 + 4$
b. $2 + 5 \;\underline{\;=\;}\; 5 + 2$
c. $3 + 3 \;\underline{\;=\;}\; 3 + 3$
d. $4 + 8 \;\underline{\;=\;}\; 6 + 6$
e. $9 + 5 \;\underline{\;>\;}\; 6 + 7$
f. $8 + 6 \;\underline{\;=\;}\; 7 + 7$
g. $8 + 1 \;\underline{\;<\;}\; 9 + 1$
h. $10 - 2 \;\underline{\;<\;}\; 2 + 11$

2. All n's in any one example below stand for the same number. Write $=$ or $<$ or $>$. Ex. a is done for you.

a. $n + 36 \;\underline{\;<\;}\; n + 37$
b. $5 + n \;\underline{\;<\;}\; n + 19$
c. $6 + n \;\underline{\;<\;}\; 8 + n$
d. $n + 5 \;\underline{\;>\;}\; n + 3$
e. $15 + n \;\underline{\;=\;}\; n + 15$
f. $16 + n \;\underline{\;<\;}\; n + 25$
g. $n + 200 \;\underline{\;>\;}\; 17 + n$
h. $n + 3 \;\underline{\;>\;}\; n + 2$
i. $n + 150 \;\underline{\;=\;}\; 150 + n$
j. $n + 46 \;\underline{\;>\;}\; 41 + n$

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7-24-62
In4-T-C-En-50a

MAGIC SQUARES

14	12	19
20	15	10
11	18	16

Arrange the following numbers in the square so that the sum of each column, the sum of each row, and the sum of each diagonal are all equal to the same number. 10, 11, 12, 14, 15, 16, 18, 19, and 20

What is the sum? 45

Fill in the lettered squares with these numbers to form another magic square.

a. Number of days in 2 school weeks
b. Number of days in 2 full weeks
c. Number of feet in 1 yard
d. Number of cups in 1 pint
e. Number of feet in 3 yards
f. Number of quarts in 2 pecks
g. Number of minutes in $\frac{1}{4}$ hour
h. Number of quarts in 1 gallon
i. Number of hours in 1/3 day

a 10	b 14	c 3
d 2	e 9	f 16
g 15	h 4	i 8

What is the sum of each row? 27

9	2	10
8	7	6
4	~~11~~	5

In this square, one number is wrong.
Which number is wrong? 11
What should it be? 12
What sum should you get when you add each row? 21

T4 - A - 14

ARITHMETIC

Write your answers on another piece of paper.

A. 8245 = 7 thousands $\boxed{12}$ hundreds 4 tens 5 ones

8	2	4	5
7	12	4	5

B. 607 = 5 hundreds $\boxed{10}$ tens 7 ones

C. 1392 = 1 thousand 3 hundreds $\boxed{8}$ tens 12 ones

D. 4781 = $\boxed{3}$ thousands 17 hundreds 8 tens 1 one

E. 1042 = 1 thousand 0 hundreds 3 tens $\boxed{12}$ ones

F. 973 = 8 hundreds $\boxed{17}$ tens 3 ones

G. 5204 = 5 thousands 1 hundred $\boxed{10}$ tens 4 ones

H. 9249 = 8 thousands $\boxed{12}$ hundreds 3 tens $\boxed{19}$ ones

I. 706 = 6 hundreds 9 tens $\boxed{16}$ ones

J. 352 = 2 hundreds 14 tens $\boxed{12}$ ones

K. 5000 = 4 thousands $\boxed{10}$ hundreds

L. 803 = 7 hundreds 9 tens $\boxed{13}$ ones

M. 450 = $\boxed{3}$ hundreds 15 tens

N. 7100 = $\boxed{6}$ thousands 11 hundreds

O. 559 = $\boxed{4}$ hundreds 15 tens $\boxed{9}$ ones

Arrange the numbers so that their sum equals the total given. No number may be used more than once for each total. (There are several correct answers.)

^{1} 7	^{2} 2	^{3} 1	▨	^{4} 5	^{5} 2
^{6} 9	4	8	▨	^{7} 7	4
^{8} 8	6	▨	^{9} 5	3	▨
^{10} 3	1	8	2	▨	▨

Across

1. Ten
4. Seven
6. Twenty-one
7. Eleven
8. Fourteen
9. Eight
10. Fourteen

Down

1. Twenty-seven
2. Thirteen
3. Nine
4. Fifteen
5. Six
9. Seven

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8-21-63
In4-T-C-En-50a

T4 - A - 15

KNOW YOUR NUMBERS

Write your answers on another piece of paper.

1. Write all the basic multiplication facts that have the following products:

18 (2 x 9, 9 x 2, 3 x 6, 6 x 3)

28 (4 x 7, 7 x 4)

45 (5 x 9, 9 x 5)

24 (4 x 6, 6 x 4, 3 x 8, 8 x 3) 2 x 12, 12 x 2

2. Write all the multiplication and addition facts you must answer to find the right product for 7 x 362.

7 x 2, 7 x 6, 7 x 3, 42 + 1, 21 + 4

3. Write all the basic facts for any process that will give you the answer 9.

6 + 3, 5 + 4, 8 + 1, 7 + 2

15 - 6, 18 - 9, 17 - 8, 16 - 7, 14 - 5, 13 - 4, 12 - 3, 11 - 2, 10 - 1

3 x 3

81 ÷ 9, 72 ÷ 8, 63 ÷ 7, 54 ÷ 6, 45 ÷ 5, 36 ÷ 4, 27 ÷ 3, 18 ÷ 2

4. What is the largest 3-figure number that can be written with numbers no larger than 5? 555

5. Write the number that has 7 ones, 2 tens, and 4 thousands.

4027

6. Write six numbers using the figures 2, 6, and 9.

926, 962, 269, 296, 692, 629

Which is the largest number? 962

Which is the smallest number? 269

7. Round these numbers to the nearest 100.

986	624	750	108
1000	600	800	100

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8-21-63
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T4 - A - 16

CAN YOU MAKE CHANGE?

Write your answers on another piece of paper.

Cost of the object is on the stand. The amount of money you have is beside it. Draw a picture of the money you receive as change.

29¢ 50¢ 1¢ 10¢ 10¢ 29¢	$1.16 $5 1¢ 1¢ 1¢ 1¢ 5¢ 25¢ 50¢ $1 $1 $1	14¢ 25¢ 1¢ 10¢
53¢ 50¢ 25¢ 1¢ 1¢ 10¢ 10¢	$5.98 $10 1¢ 1¢ $1 $1 $1 $1	$1.02 $1 25¢ 1¢ 1¢ 1¢ 10¢ 10¢
12¢ 10¢ 10¢ 1¢ 1¢ 1¢ 5¢	98¢ $1 1¢ 1¢	$7.55 $10 10¢ 10¢ 25¢ $1 $1
$3.22 $5 1¢ 1¢ 1¢ 25¢ 50¢ $1	35¢ 50¢ 5¢ 10¢	18¢ 10¢ 10¢ 1¢ 1¢
1¢ 5¢ 1¢ 1¢ 1¢ 1¢	79¢ $1 1¢ 10¢ 10¢	$2.25 $5 25¢ 50¢ $1 $1

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T4 - A - 17

ARITHMETIC

Write your answers on another piece of paper.

1 s	u	b	2 t	r	3 a	c	4 t	▨
e	▨	▨	e	▨	d	▨	i	▨
v	▨	5 i	n	▨	6 d	i	m	e
e	▨	▨	▨	▨	i	▨	e	▨
n	▨	7 f	o	o	t	▨	▨	▨
▨	▨	▨	▨	▨	8 i	n	9 c	h
10 y	a	r	d	▨	o	▨	e	▨
▨	▨	▨	▨	▨	n	▨	n	▨
▨	11 d	i	m	e	▨	12 f	t	▨

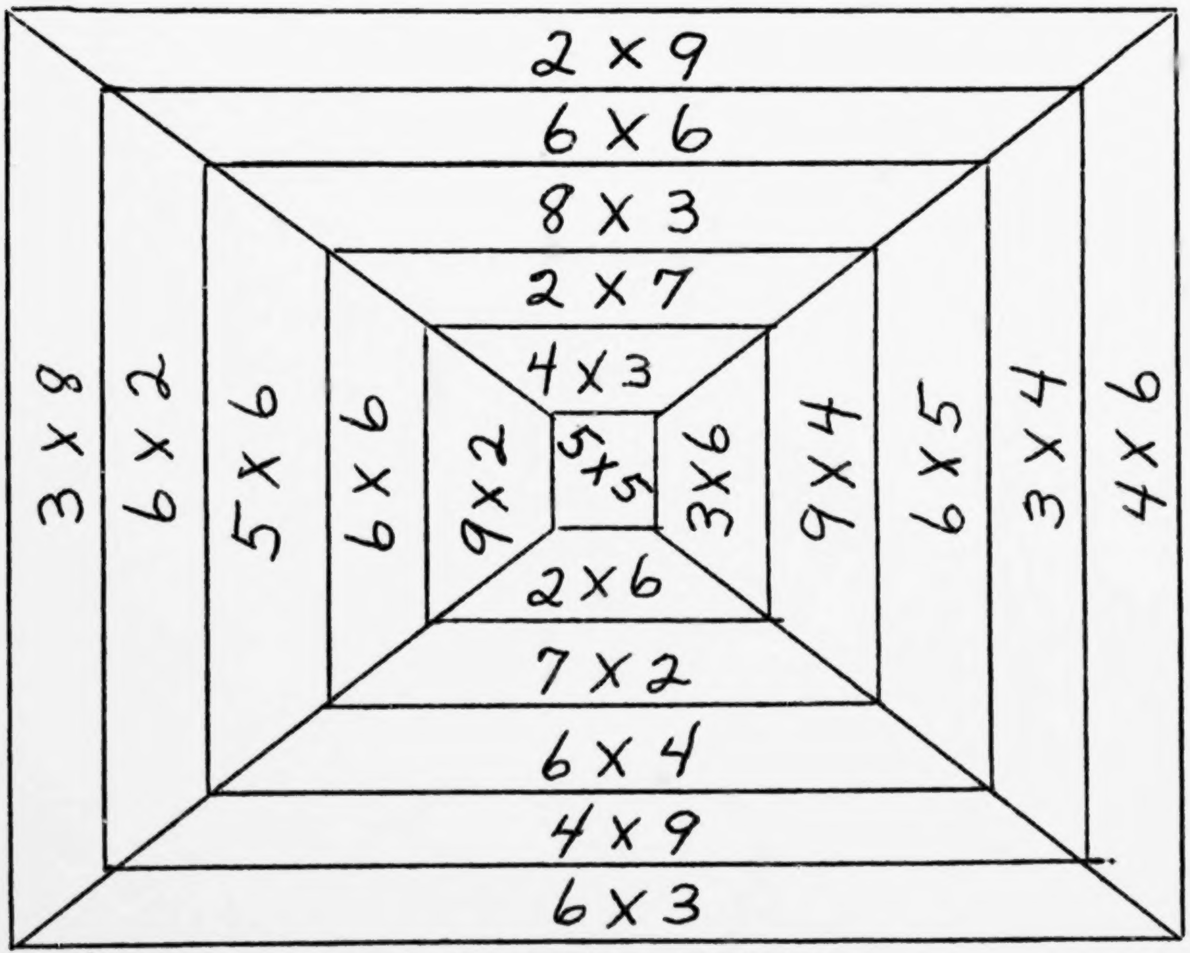
Across

1. The minus sign means to subtract.
5. Abbreviation for inch in.
6. Coin with value of 10¢ dime
7. 12 inches equal one foot
8. The unit of measurement you would use in measuring a crayon inch
10. 3 feet equal one yard .
11. Two nickels equal one dime.
12. Abbreviation for foot ft.

Down

1. Three plus four equals seven .
2. Five times two equals ten .
3. The sign + means add .
4. Clocks tell time .
9. The coin of least value is called a cent .

Color the sections according to the correct answers.



12	yellow
30	violet
24	red
25	black
36	green
18	orange
14	blue

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T4 - A - 18

PAIRS

Can you pair the following numbers so that each number in column A, when added to the number in column B, will give the same total? Write your answers on another piece of paper.

6 7 8 9 10 11 12 13 14 15 16 17

A B

1. 12 + 11 = 23
2. 13 + 10 = 23
3. 14 + 9 = 23
4. 15 + 8 = 23
5. 16 + 7 = 23
6. 17 + 6 = 23

These ten scrambled words are all units of measure. Unscramble them and write them correctly in the row of boxes. When you finish, the letters in the shaded squares will spell a word.

LAGLON	G	A	L	L	O	N
SORGS	G	R	O	S	S	
TINP	P	I	N	T		
NOT	T	O	N			
THOMN	M	O	N	T	H	
LIME	M	I	L	E		
KECP	P	E	C	K		
TOOF	F	O	O	T		
CHIN	I	N	C	H		
COUNE	O	U	N	C	E	

The word they spell is Arithmetic

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ARITHMETIC RIDDLES

Write your answers on another piece of paper.

1. I am 1/4 of a gallon or 2 times a pint. What am I?
   Ans. quart
2. I am 1/2 as heavy as a pound. How many ounces do I weigh?
   Ans. 8 oz.
3. I am 36 times an inch or 3 times a foot. What am I?
   Ans. yard
4. There are usually 365 like me in a year. What am I?
   Ans. day
5. I am 2640 feet long. What would I be if I were twice as long?
   Ans. mile
6. I am 1/3 yard long or 12 times an inch. What am I?
   Ans. foot
7. If you pour me into a quart milk bottle, the bottle will be 1/2 full. What am I?
   Ans. pint
8. I am 7 times 24 hours. What am I?
   Ans. week
9. If you pour me into a bushel basket, the basket will be 1/4 full. What am I?
   Ans. peck
10. I am the month that follows January. What month am I?
    Ans. February
11. I am half of a pint or one fourth of a quart. What am I?
    Ans. 1 cup
12. I am 1/2 of a foot or 1/6 of a yard. What am I?
    Ans. 6 inches
13. I am seven less than twice the sum of twenty-two and sixty-nine. What am I?
    Ans. 175
14. I am nine more than three times eight minus five. What am I?
    Ans. 28
15. I am twelve less than the sum of forty-eight and thirty-three. What am I?
    Ans. 69

PRIME NUMBERS

Write your answers on another piece of paper.

Prime numbers are any counting number except 1 which are divisible only by 1 and itself. Find all the prime numbers from 2 to 100. The first three numbers are:
2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47,
53, 59, 61, 67, 71, 73, 79, 83, 89, 91, 97

Greater and Lesser

$<$ is a symbol meaning less than

$>$ is a symbol meaning greater than

1. Write a number that is $>$16 and $<$18. 17
2. Write a number that is $<$ 8 and $>$ 2. 3, 4, 5, 6, or 7
3. Write a number that is $<$25 and $>$20. 21, 22, 23, or 24
4. Write a number that is $<$ 5 and $>$ 4. 4 and any fraction or decimal
5. $5 + \boxed{1 \text{ or } 2} = < 8$
6. $10 + \boxed{} = > 16$ any number more than 6
7. $18 - \boxed{7} = > 10$ but < 12
8. $7 \times \boxed{4} = < 29$ but > 27
9. $54 \div \boxed{6 \text{ or } 9} = > 3$ but < 10
10. $8 \times \boxed{3 \text{ or } 4} = < 36$ but > 20

T4 - A - 21

A DESERT MEETING

One summer afternoon, two cars crossing the desert met on a highway. Car A was going 65 miles an hour. Car B was going 40 miles an hour. When the two cars met Car A had gone 29 of the 64 miles from Carter to Gold Camp.

Gold Camp has 1,846 people and Carter has 1,391 people. Beside the highway are two mountains--Deadman's Peak, which is 2,287 ft. high, and Cone Point, which is 3,172 ft. high.

The cars met on the desert at a place which was only 452 ft. above sea level. The temperature on the desert that day was 104 degrees. Car B had an air conditioner which kept its temperature at 75 degrees.

The story above gives you the information to answer some of the questions which follow. Be careful! Maybe some questions will not have answers.

1. Car A was going how many miles an hour faster than Car B? 25

2. Car A must travel how many more miles to reach Gold Camp? 35 miles

3. What is the difference between the heights of Cone Peak and Deadman's Peak? 885 feet

4. How many fewer people are there in Carter than in Gold Camp? 455

5. Cone Point is how many feet higher than the desert? 2,720

6. Car B was kept how many degrees cooler than out on the desert? 29 degrees cooler

7. How much cooler was Car B than Car A? 29 degrees cooler

8. How long will it take Car A to reach Gold Camp? one hour

9. How much hotter was Carter than Gold Camp? Temperature at Carter and Gold Camp not given.

10. Gold Camp is how many feet higher than the place where the cars met? ________

11. The desert is how many feet below the top of Deadman's Peak? 835

12. When the two cars met on the desert, which car was nearer its destination? Car A

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8-26-63
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ARITHMETIC TRICKS

Write your answers on another piece of paper.

1.
- a. Take any number you wish (12 for example)
- b. Multiply it by 5
- c. Add 6 to the product
- d. Multiply this sum by 4
- e. Add 9 to this product
- f. Multiply this sum by 5
- g. Cross off the last two numbers
- h. Subtract 1 from what is left

What is your answer?

Ans. The answer is the number with which you started.

2. Get someone to multiply his age by 3, add 6 to the answer, and then divide by 3. Ask for the answer. By subtracting 2 from that number, you will get his age.

3.
- a. Take any number you wish (11 for example)
- b. Multiply the number by 6
- c. Add 12 to this product
- d. Divide this number by 3
- e. Subtract 2 from the quotient
- f. Divide the difference by 2
- g. Subtract the original number
- h. Add 9 to this remainder

What is your answer?

Ans. The answer is always 10.

4.
- a. Start with any number, such as 23
- b. Add the next larger number
- c. Then add 9 to this sum
- d. Divide the sum by 2
- e. Now subtract the original number

What is your answer?

Ans. The answer is always 5.

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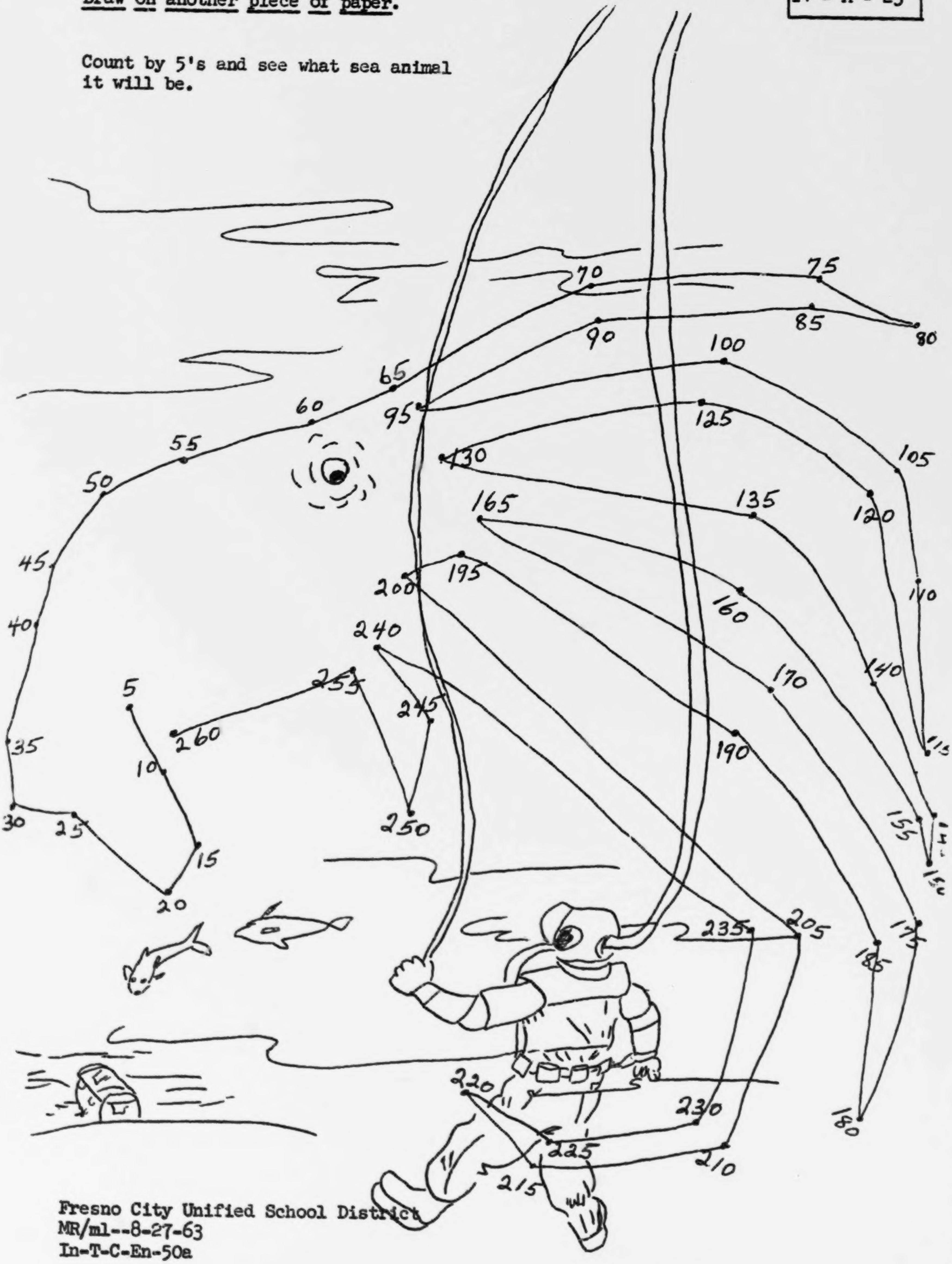
8-27-63
In4-T-C-En-50a

T4 - A - 23

Draw on another piece of paper.

Count by 5's and see what sea animal it will be.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260

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TREASURE HUNT

You have to put the words in alphabetical order to find out what they say. The one who puts the words in alphabetical order first will find the treasure first.

Write your answer on another piece of paper.

gate basket from treasure a bush east directly feet holds garden real beside secret eight

A basket beside a bush directly east eight feet

from garden gate holds real secret treasure.

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BE A SQUARE

What's a word square? Just a group of words arranged so that they read the same across and down. There are three words in this square. Notice that you can read each word from top to bottom and from left to right.

Write your answers on another piece of paper.

SIT
ICE
TEN

Now try these:

F U N 1. What you have when you enjoy yourself
U S E 2. Employ or make use of
N E W 3. Opposite of old

B A D 1. Opposite of good
A P E 2. A monkey
D E N 3. Home of the lion

T O N 1. 2000 pounds
O N E 2. Half of two
N E T 3. This separates two tennis players

S L O W 1. Opposite of fast
L O V E 2. What every mother feels for her child
O V E N 3. Place for baking
W E N T 4. Past tense of go

S T O P 1. Opposite of go
T A P E 2. The ____ measure is used to determine size.
O P E N 3. Opposite of close
P E N S 4. You write with these

1. A P E A monkey
2. P E N You write with this
3. E N D Finish

1. W O N Was the winner
2. O W E Be behind in payment
3. N E W Not old

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7-25-62
In4-T-C-En-13

GUILLOTINE

Here's a game where you chop off heads! Not people's heads -- a guillotine does that. Your pencil is your guillotine. Chop off the first letter of each word to make a new word.

Write your answers on another piece of paper.

For example:

Blame	becomes	lame
Cheat	becomes	heat

1. Chop the head off what you sweep with to get part of a house.

   _B_ _R_ _O_ _O_ _M_ becomes _R_ _O_ _O_ _M_

2. Chop the head off a piece of furniture you sit on to get what a bald man has little of.

   _C_ _H_ _A_ _I_ _R_ becomes _H_ _A_ _I_ _R_

3. Chop the head off this time-piece to get what you open with a key.

   _C_ _L_ _O_ _C_ _K_ becomes _L_ _O_ _C_ _K_

4. Chop the head off this sign of happiness to get a distance 5280.

   _S_ _M_ _I_ _L_ _E_ becomes _M_ _I_ _L_ _E_

5. Chop the head off the place where horses are kept to get a piece of furniture on which food is served.

   _S_ _T_ _A_ _B_ _L_ _E_ becomes _T_ _A_ _B_ _L_ _E_

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WORD LADDERS

See how well you can climb up and down these word ladders with the help of the clues given to you for each word.

Write your answers on another piece of paper.

1.	A R M O R	What a knight protects himself with
2.	M A R C H	Third month of the year
3.	P O L A R	A white bear is a __________ bear.
4.	S T E E L	Important metal made from iron
5.	S H E L L	What you find at the seashore
6.	B E L O W	Opposite of above
7.	E L B O W	Part of your arm
8.	N A T I O N	Country
9.	S T R O N G	Opposite of weak
10.	S P O N G E	This soaks up water
11.	M O N D A Y	The second day of the week
12.	O N W A R D	In a forward direction
13.	T E E P E E	An Indian tent
14.	S T E E L S	Robs
15.	A T T E N D	Be present
16.	L I S T E N	Hear attentively
17.	P I R A T E	Buccaneer

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In4-T-C-En-13a

T - LA - 5

CODE:

You can figure out the message by writing b for a, c for b, d for c, and so on. You must write a for z. The first two words are Can you.

Write your message on another piece of paper.

Bzm	xnt	ldds	ld	zs	Lxrsdqx
can	you	meet	me	at	Mystery
Bzud	zesdq	rbgnnk	zants	gzke	
Cave	after	school	about	half	
ozrs	entq.	H	sghmj	hs	vntkc
past	four.	I	think	it	would
ad	etm	sn	dwoknqd	sgd	bzud.
be	fun	to	explore	the	cave.
Cn	mns	kds	zntq	rhrsdq	Idzm
Do	not	let	your	sister	Jean
fds	gnkc	ne	sghr	ldrrzfd.	Rgd
get	hold	of	this	message.	She
lhfgs	ehftqd	nts	ntq	mdv	bncd.
might	figure	out	our	new	code.

LANGUAGE

Write your answers on another piece of paper.

Seeing a picture in a poem.

"A Modern Dragon"

A train is a dragon that roars through the dark.

He wiggles his tail as he sends up a spark.

He pierces the night with his one yellow eye

And all the earth trembles as he rushes by.

by Rowena Bennett

Does this poem make you hear and see the train? yes (yes or no)

Write the word that makes you

1. hear the train roars
2. see how he moves his tail wiggles
3. see the color of his eye yellow

To make you see a picture, the poet gives each part of the train a different name. Write in the different name.

4. She calls the train a dragon
5. She calls the line of cars his tail
6. She calls the headlights an eye

Parts of the poem These two words (period -- capital) can be used in the answers below.

7. With what kind of letter does every line of the poem begin? capital
8. What kind of punctuation is used in this poem? period
9. Is every line ended with some kind of punctuation? no (yes or no)
10. Does every last word in this poem rhyme? no (yes or no)
11. Do two lines rhyme? yes (yes or no)
12. Which words rhyme? dark, spark and eye with by
13. Can all of the last words in a poem rhyme? yes (yes or no)
14. Do the last words in a poem have to rhyme at all? no (yes or no)
15. This poem has four lines.
16. Does every poem have to have four lines? no (yes or no)

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7-26-62
In4-T-C-En-13a

CODE

A-1 B-2 C-3 D-4 E-5 F-6 G-7
H-8 I-9 J-10 K-11 L-12 M-13 N-14
O-15 P-16 Q-17 R-18 S-19 T-20 U-21
V-22 W-23 X-24 Y-25 Z-26

Write your message on another piece of paper.

Message:

15-14-3-5	21-16-15-14	1	20-9-13-5	
ONCE	UPON	A	TIME	
20-8-5-18-5	23-5-18-5	20-8-18-5-5		
THERE	WERE	THREE		
2-5-1-18-19.	1	16-1-16-1	2-5-1-18	
BEARS.	A	PAPA	BEAR	
1	13-1-13-1	2-5-1-18	1-14-4	
A	MAMA	BEAR	AND	
1	23-5-5	23-5-5	2-1-2-25	2-5-1-18.
A	WEE	WEE	BABY	BEAR.

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7-26-62
In4-T-C-En-13a

HELP JACK WRITE THIS LETTER!

Choose the correct spelling from the list at the bottom.

Write your answers on another piece of paper.

Dear Uncle John,

We just arrived home from a trip out west. We saw all kinds of (1) scenery and the (2) weather was good most of the time. We drove (3) through the (4) desert and in the (5) mountains.

At the Grand (6) Canyon I rode a (7) burro. We had a (8) guide who took us down a (9) steep (10) trail.

We brought home a lot of (11) interesting things. I like my (12) Indian (13) moccasins the best.

Your (14) nephew,

Jack

Use your dictionary to help you solve your spelling problems.

1. senery, scenry, scenery
2. whether, weather, wether
3. through, threw, thorough
4. dessert, dezert, desert
5. mountians, mountans, mountains
6. Canyon, Cannon, Kanion
7. burrow, burro, buro
8. gide, giude, guide
9. stepe, steap, steep
10. trial, trail, trale
11. intresting, interesting, intristing
12. Indain, Indian, Indyan
13. Moccassins, mocassins, moccasins
14. nefew, nephiew, nephew

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7-26-62
In4-T-C-En-13a

Carefully read the following headlines. Can you find sixteen words misspelled?

Write the words on another piece of paper.
Spell each word correctly.

Munkey escapes zou caje
Climes cherch chimeny

Gote runs wilde
Feests on puppil's shert

Starm hits twin citys
Satiday game calld off

1. Monkey
2. zoo
3. cage
4. climbs
5. church
6. chimney
7. storm
8. cities
9. Saturday
10. called
11. off
12. Goat
13. wild
14. feasts
15. pupils
16. shirt

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7-26-62
In4-T-C-En-13a

All the words in the boxes are compound words but they have been put together wrong. See if you can straighten them out.

Write the correct words on another piece of paper. Learn to spell compound words part by part.

birthground
downbody
everystairs
forday
playgot

cowbow
themwalk
rainboy
bedselves
sideroom

airroad
breakshine
sunpoint
ballfast
railplane

1. birthday
2. downstairs
3. everybody
4. forgot
5. playday
6. cowboy
7. themselves
8. rainbow
9. bedroom
10. sidewalk
11. airplane
12. breakfast
13. sunshine
14. ballpoint
15. railroad

Dear Aunt Helen,

It seams sew long since we have herd from you. We new that you had a bad fall on the stares. Did you receive the get well card I cent you? I rote it with my new Paper Mate.

Last weak Dad and I entered hour sale-boat in the spring meat. The whether was fare. The see was calm. The wind blue just write, to. You will be happy to no that we one the race.

We hope to here from you soon.

With love,

Tom

Read Tom's letter. You can see that he has trouble spelling homonyms. Homonyms sound alike but they have different spellings and meanings.

Find the spelling errors in Tom's letter. On another piece of paper write each homonym correctly.

1. seems
2. so
3. heard
4. knew
5. stairs
6. sent
7. wrote
8. week
9. our
10. sail
11. meet
12. weather
13. fair
14. sea
15. blew
16. right
17. too
18. know
19. won
20. hear

To save time and space, we often abbreviate certain words. An abbreviation is a shortened form of a word.

Look at these abbreviations. Beside each one write the word for which the abbreviation stands. Remember to capitalize the names of the months and the days.

Three of the months have no abbreviations. Write their names on the last three lines. Write your answers on another piece of paper.

Oct.	October
Sun.	Sunday
Dec.	December
Sat.	Saturday
Mar.	March
Nov.	November
Thurs.	Thursday
Sept.	September
Apr.	April
Mon.	Monday
Feb.	February
Aug.	August
Tues.	Tuesday
Fri.	Friday
Jan.	January
Wed.	Wednesday
	May
	June
	July

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7-26-62
In4-T-C-En-13a

Carl's father asked him to list the subjects he studied in school. Carl listed them with his favorite subject first, and so on.

Find Carl's spelling errors. Write the words correctly on another piece of paper.

recees
jym
scinse
liberry
reeding

writting
arte
arrithmetik
helth
histry

languidje
Frensh
jogerfe
mussik
speeling

1. recess
2. gym
3. science
4. library
5. reading
6. writing
7. art
8. arithmetic
9. health
10. history
11. language
12. French
13. geography
14. music
15. spelling

Carol wrote a story. Just to be funny she left out the silent letters in twenty of the words. See if you can find the twenty words.

On another piece of paper write each word correctly.

Late one nit when I was haf aslep, I heard a nock on the door. Tho I thot I was dreaming as I ofen do, I sat up in bed to lisen. It was then that I heard somone cal my name.

"Al rite," I answered as I climed out of bed.

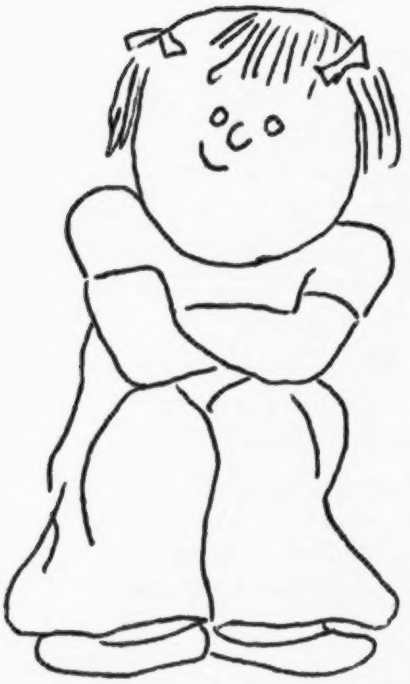
Fritened as I was, I ran strat to the door. And ges who was standing there in the brite moon lite .... a gost!

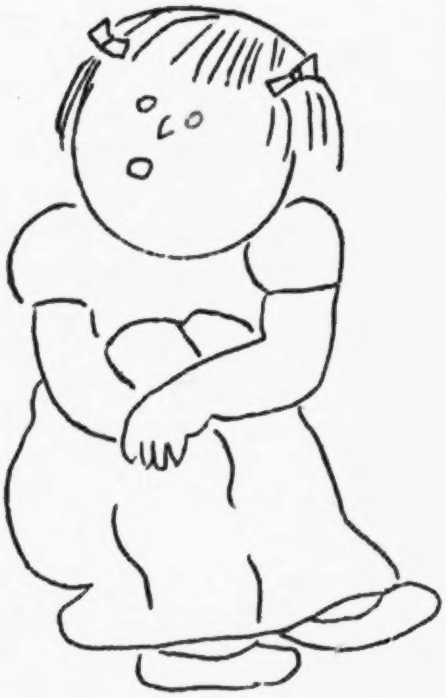
Do you belev that?

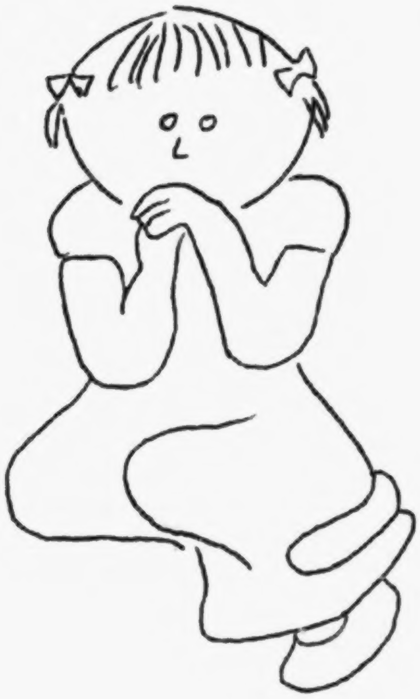
1. night
2. half
3. asleep
4. knock
5. though
6. thought
7. often
8. listen
9. call
10. all
11. right
12. someone
13. climbed
14. frightened
15. straight
16. guess
17. bright
18. light
19. ghost
20. believe

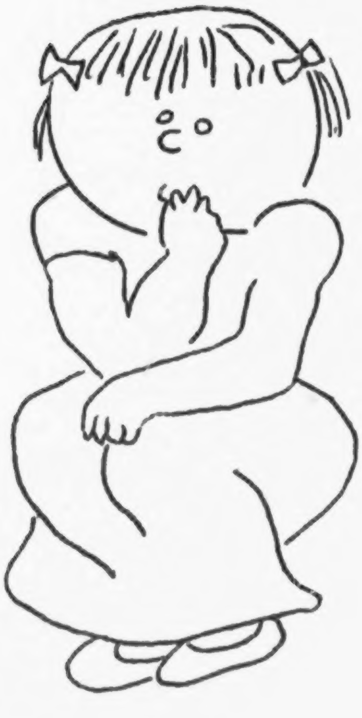
T - LA - 15

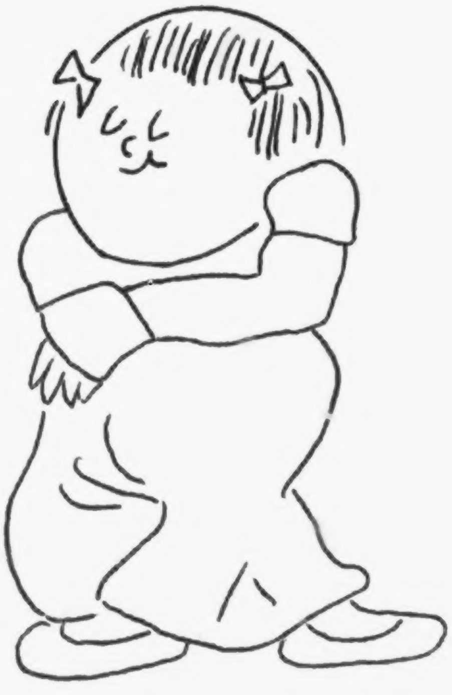
Write Me A Story

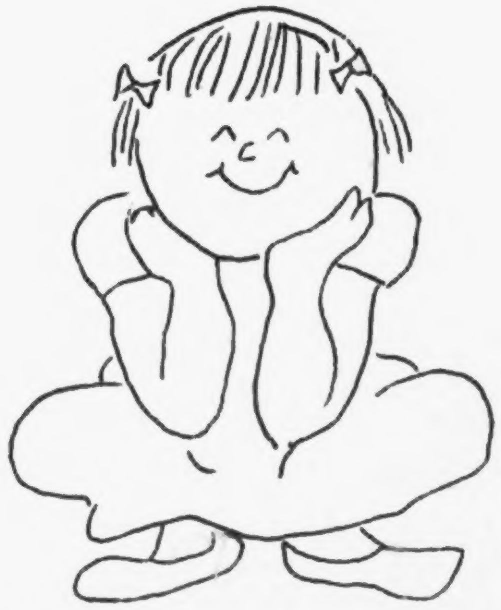












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7-27-62
In4-T-C-En-13a

T4 - LA - 16

WRITING POETRY

Write your answers on another piece of paper.

"At the Seashore"

When I was down beside the sea
A wooden spade they gave to me
To dig the sandy shore.
My holes were empty like a cup
In every hole the sea came up,
Till it could come no more.

--by Robert Louis Stevenson

1. With what kind of letter does every line of the poem begin? capital
2. Does every line of this poem start below each other? no (yes or no)
3. Is every line ended with some kind of punctuation? no (yes or no)
4. Does every line in this poem rhyme? no (yes or no)
5. Which words rhyme? sea with me
   cup with up
   shore with more
6. What kind of spade did the child use? wooden
7. Does the word with spade help you see what is happening? yes (yes or no)
8. The holes were empty like a cup. Does that help you see the holes? yes (yes or no)

Write a poem of your own about the sea. You will need six lines. The last word of the lines can all rhyme, two lines can rhyme, or no lines need to rhyme.

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8-27-63 - In4-T-C-En-13a

T4 - LA - 17

COLORFUL WORDS

Select the words in the story below that help you to get mental pictures. Write the answers on another piece of paper.

One night, I heard a strange sound outside my window. At first, I sat as quiet as a mouse. Then, I decided to be as brave as a lion and see what was causing the noise. The moon looked like a big yellow balloon that shone on a moving figure jumping like a bucking bronco. I laughed when I discovered it was my dog. He was covered with a blanket that he had pulled off the clothesline.

Many words help to give a mental picture when you compare things. Example: as sly as a fox. Finish the phrases with appropriate words.

1. as hard as a rock
2. as busy as a bee
3. as meek as a lamb
4. as red as a rose
5. as hungry as a wolf
6. as blue as the sky
7. as slow as a snail
8. as swift as the wind
9. as cross as a bear
10. as sly as a fox

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8-27-63

In4-S-C-En-13a

T4 - LA - 18

AESY ELINGSH

Rearrange the letters to spell a word. Look at the bottom of the page if you need help. Write the answers on another piece of paper.

1. palatic capital
2. Lsghein English
3. dowsr words
4. mamoc comma
5. nesceetn sentence
6. intesoug question
7. anemtetst statement
8. diproe period
9. hlbaptea alphabet
10. tselret letters

1. We use it at the beginning of a sentence.
2. This book helps us learn English.
3. We use these in sentences.
4. It separates words in sentences.
5. It tells a whole thought.
6. It asks something.
7. It tells something.
8. We put this at the end of a sentence.
9. There are 26 letters in it.
10. Parts of words are called syllables.

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8-27-63
In4-T-C-En-13a

LANGUAGE

(Writing Our Own Poem)

Write the last word for this rhyme and give it a title. Write your answers on another piece of paper.

____

Our school will soon be over,
For this is the month of May,
Amid the flowers and clover
We'll run and jump and ________.

1. Was a comma used in this poem? yes (yes or no)

2. Fill the blanks with rhyming words from this list.

   wag cake gay patch shake pray match rag

   a. bay gay pray tag rag wag

   b. rake cake shake catch patch match

3. Here are describing words that make you feel:

   icy fuzzy smooth rough prickly

   In each sentence below, write one of these words to show how something feels.

   a. In winter an icy wind blows over our faces.

   b. A peach has a fuzzy skin.

   c. Velvet is smooth.

   d. A brick is rough.

   e. A prickly burr stuck to my coat.

4. Now write a rhyme of your own. All you need to have is four lines. The last word of the lines can all rhyme, two lines can rhyme, or no lines can rhyme.

____

____

____

____

____

T4 - LA - 20

LANGUAGE

Look at the word above each sentence. Then, read the sentence and write a word in the empty space that fits the meaning. The word must either begin or end like the word above the sentence. Write your answers on another piece of paper.

hard

1. The girl was eager to learn how to play the beautiful golden ___ harp ___.

saw

2. After Patty's teeth were filled, her ___ jaw ___ stopped aching.

main

3. On my birthday the postman brought me lots of ___ mail ___.

faster

4. The dog scrambled aboard the rowboat after his ___ master ___.

shook

5. On hot days the cattle often go to the ___ brook ___ to drink.

twice

6. George's father paid a high ___ price ___ for his son's bike.

stump

7. Walking with a heavy object on your head is not an easy ___ stunt ___.

dollar

8. Grandfather's beard was so long that it hid his ___ collar ___.

hitch

9. Men were digging a ___ ditch ___ beside the road to carry off water.

shop

10. When the weather is chilly, farmers do not have a good corn ___ crop ___.

hut

11. The ___ hum ___ of the bees became louder as we drew near the hive.

pillow

12. The fisherman sat down under a ___ willow ___ tree.

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8-28-63
In4-T-C-En-13a

T4 - LA -

SINGULAR - PLURAL WORDS

Singular means one, plural more than one.

Draw your puzzle on another piece of paper.

1 A S	T	A	R	B S	☒	2 C W	A	T	C	H	☒
E	☒	☒	☒	O	☒	O	☒	☒	☒	☒	☒
N	☒	☒	☒	C	☒	4 L	A	D	I	E	E S
3 T	R	U	D C	K	☒	V	☒	☒	☒	☒	I
E	☒	☒	H	☒	☒	6 E	C	H	O	E	S
N	☒	☒	U	☒	☒	S	☒	☒	☒	☒	T
5 C	H	E	R	R	Y	☒	☒	☒	☒	☒	E
E	☒	☒	N	☒	☒	☒	7 R	U	L	E	R

In the correct blocks, write the singular form of all plural words printed below. Write the plural form of the singular words in the following lists.

Across		Down	
1.	star	A.	sentences
2.	watches	B.	socks
3.	trucks	C.	wolf
4.	lady	D.	churns
5.	cherries	E.	sisters
6.	echo		
7.	rulers		

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8-28-63
In4-T-C-En-13a

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T - M - 1

JANUARY

Fill in the blanks for some news about January. After each blank is a World Book Encyclopedia clue, such as (J-28). This means to look in Volume J, on page 28. These clues will help you find your answers. Write your answers on another piece of paper.

1. What people hold a great river bathing festival in about the middle of January? Hindus J-28

2. For whom is January named? Janus (Two-faced God) J-28

3. What people once celebrated the new year in about the middle of June? Egyptians N-237

4. What is another name for "Twelfth Night" or "Little Christmas"? Epiphany J-28

5. What thing, a part of the house, did English people once clean on New Year's Day for good luck? Chimneys N-237

6. In another English custom, what did wives once receive on New Year's Day for buying pins? Money N-237

7. A famous city, Rio de Janeiro, has the same name as its bay. What does "Janeiro" mean in English? January R-322

8. What embroidered and jeweled New Year's gifts did Queen Elizabeth I add to a collection? Gloves N-237

9. In what country does the new year begin on March 21? Iran N-237

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7/24/62
In4-T-C-En-47a

2

T - M - 2

We never guess.
We look it up!

FEBRUARY

Can you fill in the proper numbers in the blanks? Check your answers with F-65. Write the poem and answers to the questions on another piece of paper.

30 days hath September,
April, June, and November;
All the rest have 31.
Excepting February alone
Which hath but 28, in fine,
Till Leap Year gives it 29.

WHO AM I?

1. My real name is the woodchuck. W-328
2. On February 2nd, I am supposed to come out of my burrow. W-328
3. If I see my shadow, I am frightened and I go back in my hole for six weeks. G-393-4
4. If I don't see my shadow, I stay out and spring will soon be here. G-393-4
5. Do you think beliefs about me are true? No. W-328-9
6. Draw a picture of me in the frame above.
7. Name five other animals that sleep all winter. B bear
   S snakes S skunks E frogs C chipmunks
   H-207
8. This long sleep is called hibernation. H-207

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7/24/62
In4-T-C-En-47a

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-- --

T - R - 1

Hi! Ho! On to Pronunciations We Go -- What's the Joke?

Write the story correctly on another piece of paper.

“Lu̇k hēr, Bob,” kəmplānd′ ə man tü hiz nā′bər wun môr′ning, “ūv got tü māk ūr dôg stop chās′ing ôl ŦHə spôrts kärz ŦHat driv doun our strēt.”

“Wel Ī kant dü much əbout′ ŦHat an′sərd Ŧhə man. “Mōst dôgz chās kärz.”

“Yes Ī nō—but ūr dôg kach′əz ŦHəm ənd ber′iz ŦHəm in mī bak yärd.”

"Look here, Bob," complained a man to his neighbor one morning, "you've got to make your dog stop chasing all the sports cars that drive down our street."

"Well I can't do much about that," answered the man. "Most dogs chase cars."

"Yes I know -- but your dog catches them and buries them in my back yard."

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7-17-62
In4-T-C-En-48a

Write this poem on another piece of paper

hwĕn dĭd ŦHə wũrld bĭ·gĭn

"hwĕn dĭd ŦHə wurld bĭ·gĭn′?"
ī ăskt ə lăm, ə gōt, ə kow:

"hwäts ĭt ôl ə·bout′ ănd hwī?"
ī ăskt ə hôg ăz hē wôkt bī:

"hwãr wĭl ŦHə hōl thĭng ĕnd ănd hwĕn?"
ī ăskt ə dŭk, ə go͞os, ə hĕn:

and ī kŏp·ĭd ôl ŦHə ăn·′sẽrs, to͞o,
ə kwăk, ə honk, ăn oink, ə mo͞o.

rob′ẽrt klâr·′mŏnt′

When Did The World Begin

"When did the world begin?"
I asked a lamb, a goat, a cow.
"Whats it all about and why?"
I asked a hog as he walked by.
"Where will the whole thing end and when?"
I asked a duck, a goose, a hen:
And I copied all the answers, too,
A quack, a honk, an oink, a moo.

Robert Clarmont

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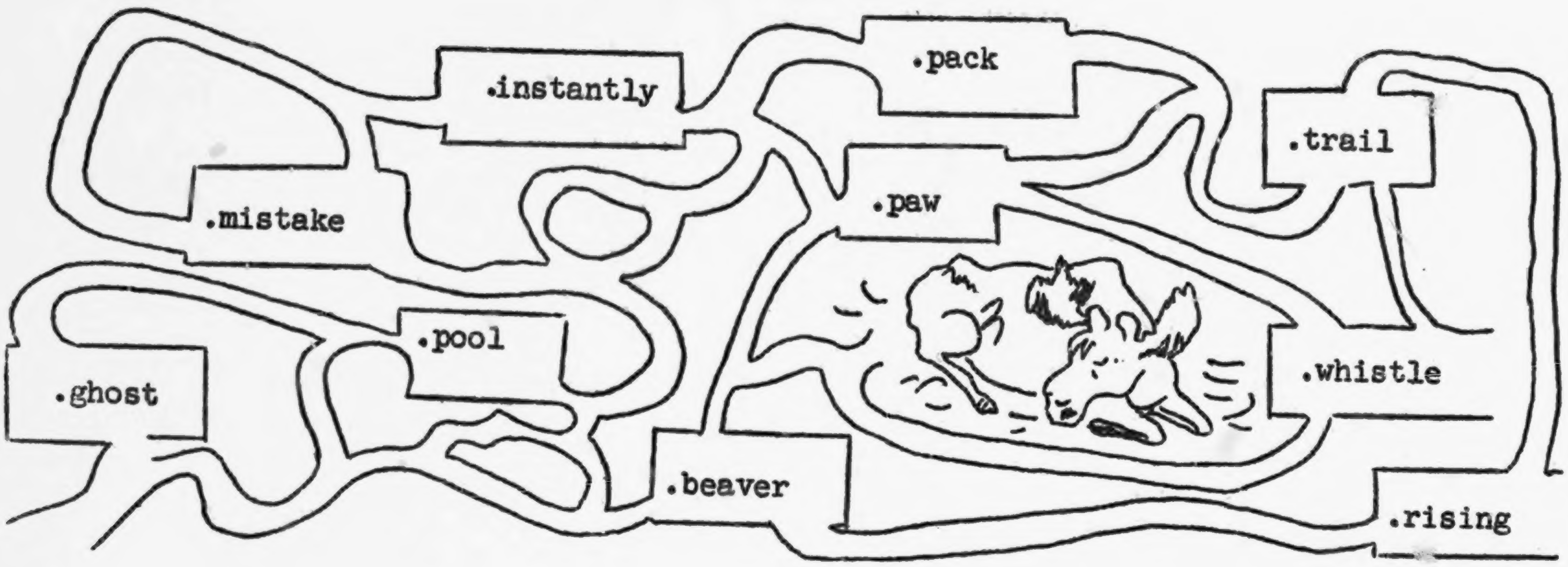
7-18-62
In4-T-C-En-48a

ON THE TRAIL OF THE MOOSE



The trail of the moose begins at the bottom left hand corner of this picture puzzle. Use the clues below to follow the trail of the moose from word to word. Join the points with a pencil line to find the sleeping moose.

CLUES

1. Find the word that has the long o.

ghost

2. Find the word that has twin vowels next to each other.

pool

3. Find the two-syllable word that has a long a.

mistake

4. Find the word that has three syllables.

instantly

5. Find the word that rhymes with Jack.

pack

6. Find the word that means path.

trail

7. Find the word that has a long i and a short i.

rising

8. Find the two-syllable word with two different vowels that come together.

beaver

9. Find the word that rhymes with saw.

paw

10. Find the word that has a silent t.

whistle

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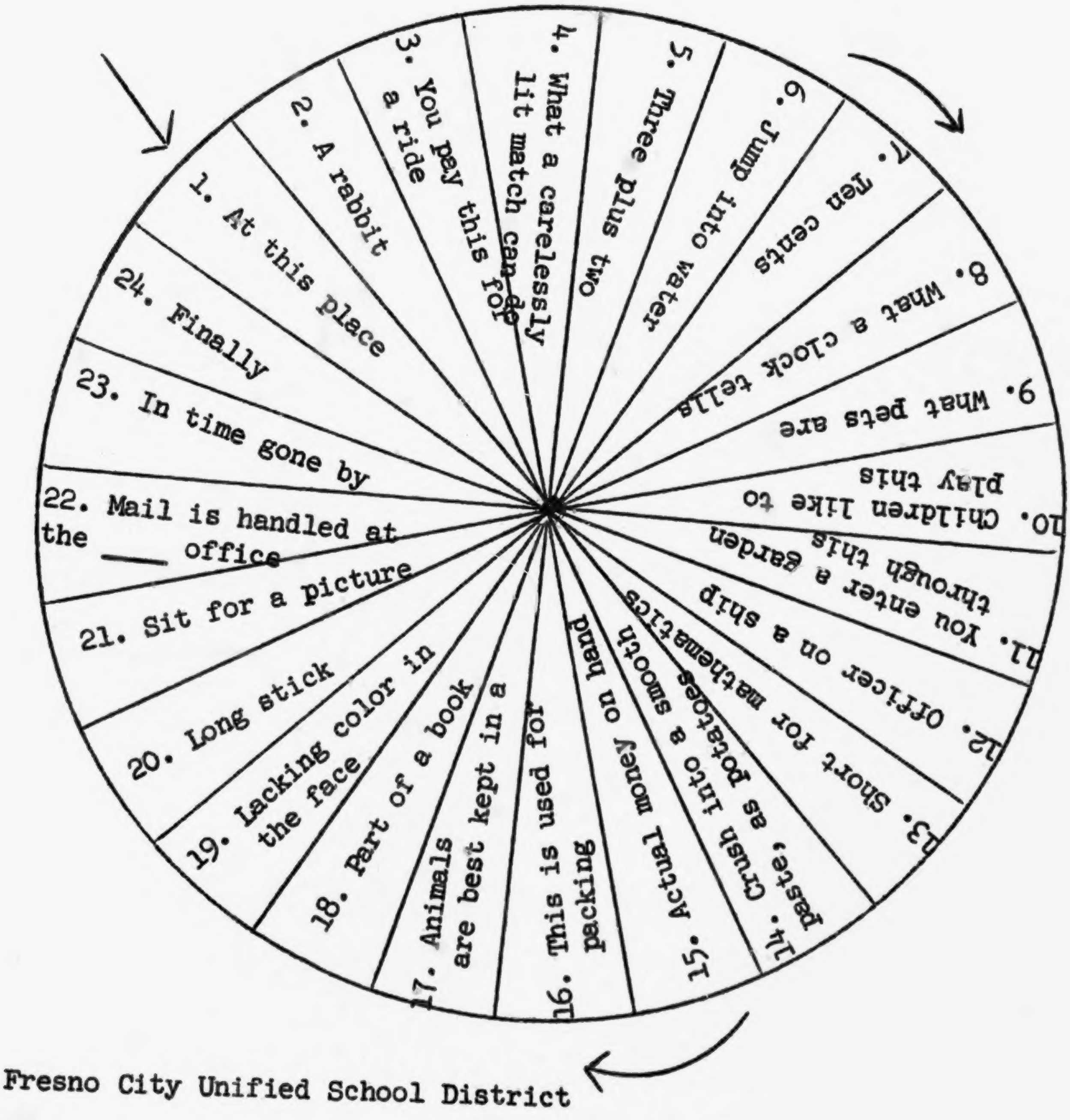
7-19-62
In4-T-C-En-48a

PINWHEEL

Starting at the arrow, work your way around the pinwheel clockwise, by changing only one letter in each word to make a new one. The definitions will give you a clue. Each word has four letters.

Write your answers on another piece of paper.

1. here
2. hare
3. fare
4. fire
5. five
6. dive
7. dime
8. time
9. tame
10. game
11. gate
12. mate
13. math
14. mash
15. cash
16. case
17. cage
18. page
19. pale
20. pole
21. pose
22. post
23. past
24. last



1. At this place
2. A rabbit
3. You pay this for a ride
4. What a carelessly lit match can do
5. Three plus two
6. Jump into water
7. Ten cents
8. What a clock tells
9. What pets are
10. Children like to play this
11. You enter a garden through this
12. Officer on a ship
13. Short for mathematics
14. Crush into a smooth paste, as potatoes
15. Actual money on hand
16. This is used for packing
17. Animals are best kept in a
18. Part of a book
19. Lacking color in the face
20. Long stick
21. Sit for a picture
22. Mail is handled at the ____ office
23. In time gone by
24. Finally

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7-19-62
In4-T-C-En-48a

Change the letters in these words to make different words.
Write your answers on another piece of paper.

1. file L I F E
2. palm L A M P
3. care R A C E
4. pans S N A P
5. tone N O T E
6. scat C A S T
7. pace C A P E
8. dray Y A R D
9. silo S O I L
10. dear R E A D
11. sift F I S T
12. hops S H O P
13. rote T E A R
14. reap P E A R
15. tale L A T E
16. odor D O O R
17. meat T E A M
18. ours S O U R
19. nails S N A I L
20. snug G U N S
21. male L A M E
22. pest S T E P
23. sore R O S E
24. inch C H I N

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7-18-62
In4-T-C-En-48a

T - R - 6

DO YOU KNOW ME?

brownie
witch
elf
giant
fairy
wizard
goblin
troll

Write your answers on another piece of paper.

1. I do magic on Halloween,
And with a broom I'm often seen. witch

2. I work for others whenever I can,
And take no pay from woman or man. brownie

3. I have the power to use a disguise,
And most folks think I am very wise. wizard

4. I'll eat nine cows at a single meal;
For me such a dinner is not a great deal. giant

5. I'm terribly ugly. My voice is rough.
I once tried to gobble the Billy Goats Gruff. troll

6. I'm smaller than Brownie. I'm sly and quick.
On boys and girls I play many a trick. elf

7. I gracefully dance on a moonlight far,
And grant you the wish that you make on a star. fairy

8. When witches in the moonlight ride,
You'll often find me at their side. goblin

Find and write the word that makes each paragraph foolish. What other word could you use?

Write you answers on another piece of paper.

reward
1. As a punishment for winning the difficult contest, Bill was given a prize of fifteen dollars.

2. The queen glanced at her weeping daughter, kissed her and comforted her with harsh words.
kind

3. The ragged peddler, after toiling all day, was very disappointed that he had sold so many things.
happy

sharp
4. Bob felt a pleasant stab of pain in his elbow when he fell on the slippery steps.

glad
5. Roy couldn't endure cold weather and was sorry to have an opportunity to spend the winter in Florida.

6. The tired boy leaned against a fence because he felt so steady after working all day in the orchard.
unsteady

7. One day a rooster wallowed in the hot, dry dust. When he arose, his comb was covered with small bits of water.
dirt

clucked
8. The mother hen cheeped to her little new chicks.

Nightime
9. Daytime is the proper time to sleep, and bed is the proper place.

Rearrange the order of the letters in the second word in each sentence to make a new word.

Write your answer on another piece of paper.

1. Change scat to a word that means fling.
   cast
2. Change arc to a word that means automobile.
   car
3. Change sore to a word that means a fragrant flower.
   rose
4. Change tale to a word that means behind time.
   late
5. Change aloft to a word that means be held up by water.
   float
6. Change sign to a word that means make music with the voice.
   sing
7. Change beak to a word that means cook in an oven.
   bake
8. Change brag to a word that means seize suddenly.
   grab
9. Change tried to a word that means weary.
   tired
10. Change feel to a word that means run away.
    flee
11. Change pin to a word that means bite.
    nip
12. Change peach to a word that means low in cost.
    cheap
13. Change tow to a word that means one more than one.
    two
14. Change trial to a word that means a path in the wilderness.
    trail
15. Change thus to a word that means closed.
    shut
16. Change tone to a word that means a short letter.
    note

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7-18-62
In4-T-C-En-48a

Choose the right word to finish each sentence.

Write your answer on another piece of paper.

1. Rug is to floor as blanket is to

   bed wool sleep

2. Books are to eyes as radio is to

   ears nostrils tongue

3. Lane is to narrow as avenue is to

   wide park city

4. Ranch is to cattle as plantation is to

   city farm coffee

5. Peacock is to strut as rabbit is to

   animal hop bunny

6. Glove is to hand as cap is to

   hat head America

7. Coffee is to bush as apple is to

   vine tree fruit

8. Chirp is to cricket as caw is to

   giraffe elephant crow

9. Tears are to grief as laughter is to

   joy hunger sorrow

10. Attic is to house as loft is to

    stable patio floor

11. Elbow is to arm as knee is to

    kneel foot leg

12. Wool is to sheep as feathers are to

    lions wrens frogs

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7-18-62
In4-T-C-En-48a

SAY SOMETHING SMART

Here's more fun with words that are opposites. This time, each word must begin with the letter S.

Write your answers on another piece of paper.

1.	Buy	sell
2.	Uncertain	sure
3.	Sweet	sour
4.	Fast	slow
5.	Hide	seek
6.	Noise	silence
7.	Rough	smooth
8.	Whisper	shout
9.	Winter	summer
10.	Hard	soft
11.	Weak	strong
12.	Glad	sorry
13.	Long	short
14.	Open	shut
15.	Large	small
16.	Frown	smile

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7-18-62
In4-T-C-En-48a

T4 - R - 11

A WORD TO THE WISE

How much do you know about proverbs? Below you will find a number of old proverbs, one or more of the words in the proverb are scrambled. See how well you can do at unscrambling the words to find out the proverb. Write your answers on another piece of paper.

(gained)
1. Nothing ventured, nothing ngaide.
(rod) (child)
2. Spare the odr, spoil the iclhd.
(wealth)
3. Health is better than twleha.
(deserves)
4. One good turn resvedse another.
(hand) (two) (bush)
5. A bird in the ndah is worth owt in the ubhs.
(fool) (parted)
6. A olfo and his money are soon taprde.
(Experience)
7. xernecpeie is the best teacher.
(star)
8. Hitch your wagon to a atrs.
(old) (block)
9. A chip off the dol kbocl.
(like) (son)
10. Like father, ikle nso.
(stones) (moss)
11. Rolling osntse gather no smos.
(not) (fine) (birds)
12. Fine feathers do otn make nefi drbis.
(power)
13. Knowledge is oepwr.
(Pennies) (earned)
14. npensei saved are pennies nredea.
(cake) (it) (too)
15. You cannot eat your kace and have ti oto.
(Boys)
16. yobs will be boys.
(Indians)
17. Too many chiefs and no daninis.
(angels) (to)
18. Fools rush in where lganse fear ot tread.
(spice) (life)
19. Variety is the very ipsec of flie.
(waits)
20. Everything comes to him who sawti.
(water)
21. Blood is thicker than rtwea.
(want) (not)
22. Waste not, twna ont.
(spoil) (soup)
23. Too many cooks opsli the uops.
(stitch) (nine)
24. A hstcti in time saves einn.
(apple) (doctor)
25. An plpae a day keeps the ctoodr away.
(home) (best)
26. East or west, mheo is stbe.

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8-28-63 - In4-T-C-En-48a

T4 - R - 12

SCRAMBLED WORDS

The following words have to do with school, see how many of them you can unscramble.

Write your answers on another piece of paper.

1.	agerdin	reading
2.	lpesgnli	spelling
3.	sokob	books
4.	eksd	desk
5.	rlbadcobak	blackboard
6.	akchl	chalk
7.	alosic diustse	social studies
8.	mractihtie	arithmetic
9.	nlcpie	pencil
10.	rpaep	paper
11.	dnlicehr	children
12.	rtoepr rcda	report card
13.	taicvnoa	vacation
14.	ugalenag	language
15.	aresre	eraser
16.	cesres	recess
17.	cetahre	teacher
18.	nrcpilpai	principal
19.	rylarib	library
20.	setst	tests

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8-28-63
In4-T-C-En-48a

T4 - R - 13

ŦHâr wäz ăn ōld măn

ŦHar wäz ăn ōld măn hwo͞o sĕd,
"wĕl!
wĭl nō´·bod´·ĭ ăn´·sẽr ŦHĭs bĕl?
ī hăv po͝old dā ănd nīt, tĭl mī
hâr hăz grōn hwīt,
but nō´·bŏd´·ĭ ăn´·sẽrs ŦHĭs bĕl!"

ĕd´·wẽrd lêr

There Was an Old Man

There was an old man who said, "Well!
Will nobody answer this bell?
I have pulled day and night, till my
hair has grown white,
But nobody answers this bell!"

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8-29-63
In4-T-C-En-48a

FROM LEAST TO MOST

Put 1 before the least, 2 before the middle one, and 3 before the most.

Write your answers on another piece of paper.

1. Compare these in length.

1 inch
3 yard
2 foot

2. Compare these in weight.

3 pumpkin
1 huckleberry
2 apple

3. Compare these in age.

3 man
2 child
1 baby

4. Compare these in strength.

1 insect
2 heifer
3 elephant

5. Compare these in size.

2 robin
3 swan
1 fly

6. Compare these in brightness.

1 twig
3 tree trunk
2 branch

7. Compare in length of time.

1 minute
2 month
3 year

8. Compare these in width.

1 path
3 avenue
2 lane

9. Compare these in size.

2 man
1 dwarf
3 giant

10. Compare these in number.

3 twenty
1 couple
2 dozen

11. Compare these in darkness.

3 midnight
2 dusk
1 forenoon

12. Compare these in weight.

1 acorn
3 turkey
2 rat

T4 - R - 15

Find a word from the list below which belongs at the top of each box. Write your answers on another piece of paper.

buildings
clothes
colors
days
directions
dishes
fowls
furniture
grains
months
noises
regions
seasons
shapes
sports
states
tastes
tools
trees
vegetables

1. trees palm spruce fir	6. furniture stool desk stove	11. tools spade ax plow	16. clothes sweater sombrero jacket
2. fowls gander rooster drake	7. directions southward upward westward	12. seasons spring summer autumn	17. vegetables squash cabbage beet
3. shapes wedge square circle	8. tastes bitter sweet sour	13. grains rice corn wheat	18. noises buzz snicker hoot
4. months June January May	9. colors scarlet brown gray	14. days Monday Tuesday Friday	19. states Nebraska New York Ohio
5. buildings prison cottage hotel	10. regions plain desert wilderness	15. dishes plate cup bowl	20. sports shooting skating baseball

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8-29-63
In4-T-C-En-48a

T4 - R - 16

QUOTE AND UNQUOTE

Write your answers on another piece of paper.

Across

1. Good citizens obey the law.
4. "A barking dog never bites."
6. From top to bottom.
7. Short for et cetera Etc.
9. "A stitch in time saves nine."
10. Benjamin Franklin said, "We must all hang together or we shall all hang separately."
11. "One if by land; two if by sea."
13. "Baa, baa, blacksheep, have you any wool?"
14. "Four score and seven years ago."
16. Danger! Dynamite! T.N.T.

		1 L	2 A	3 W		
	4 B	I	T	E	5 S	
6 T	O	P	▨	7 E	T	8 C
9 I	N	▨	▨	▨	10 O	R
11 S	E	12 A	▨	13 A	N	Y
	14 S	C	15 O	R	E	
		16 T	N	T		

Down

1. "There's many a slip 'twixt the cup and the lip."
2. "If at first you don't succeeed, try, try again."
3. Wee Willie Winkie.
4. "Sticks and stones may break my bones."
5. "A rolling stone gathers no moss."
6. "My country tis of thee."
8. "Don't cry over spilt milk."
12. "People are judged by the way they act."
13. Nickname for Arthur Art
15. Slogan on early American flag, "Don't tread on me."

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8-29-63
In4-T-C-En-48a

T4 - R - 17

DO YOU REMEMBER?

Number the sayings to match the titles of the stories.

Write your answers on another piece of paper.

1. Little Red Riding Hood
2. The Old Woman and Her Pig
3. Jack and the Beanstalk
4. The Billy Goats Gruff
5. The Brownie of Blednock
6. Johnny Cake
7. The Little Red Hen
8. Three Little Pigs
9. Snow White
10. The Three Bears
11. Cinderella
12. Hansel and Gretel
13. Little Black Sambo
14. Chicken Little

1. 10 "Somebody has been at my porridge, and has eaten it all up.

2. 9 "Mirror, mirror, on the wall, Who's the fairest one of all?"

3. 1 "Oh, Grandmother! Grandmother! What big arms you have!" "The better to hug you with, my dear."

4. 13 "Now I'm the grandest tiger in the jungle."

5. 8 "I'll huff, and I'll puff, and I'll blow your house in!"

6. 14 "Oh, oh! The sky is falling down. I saw it with my eyes. I heard it with my ears. And a piece of it fell on my head."

7. 3 "Fe, fi, fo, fum! I smell the blood of an Englishman."

8. 6 "I've run away from a little old woman and a little old man. And I can run away from you, I can, I can!"

9. 2 "Dog! Dog! Bite pig. Piggy won't get over the stile, and I shan't get home tonight."

10. 12 "Nibble, nibble like a mouse. Who is nibbling at my house?"

11. 5 "Oh, my name is Aiken-Drum, and to do your work I've come.

12. 4 "Trip-trap! Trip-trap! Who's that tripping over my bridge?"

13. 11 "Remember to come back home before the stroke of twelve."

14. 7 "Not I," said the dog. "Not I," said the cat. "Then I'll do it myself," she said. And she did.

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School District
9-3-63
In4-S-C-En-48a

T4 - R - 18

STORYBOOK LANGUAGE AND ORDINARY LANGUAGE

Write your answers on another piece of paper.

1. had not happened since dear knows when
2. dare say that it is possible
3. set out to seek his fortune
4. beside himself with joy
5. to return sooner or later
6. her proud heart melted
7. took his leave
8. grant your heart's desire
9. happened into the throne room
10. proud of her high birth
11. a princess whose beauty had been noised abroad
12. donned royal robes
13. at length it came to pass
14. prevent her escape
15. at the stroke of midnight
16. so full of wonder was he
17. roamed near and far
18. gave herself no rest
19. appeal of laughter

9 went into the throne room by accident

1 had not happened for a long time

4 was especially glad

3 left home to earn a living

6 she became sorry

5 to come back sometime

2 suppose that it can be done

10 proud to be the daughter of a king

7 said goodby and left

18 did not stop working

11 a princess whose beauty had been talked about in distant countries

8 give you the thing you want most

12 put on a king's clothes

17 wandered through many places

19 a loud, long laugh

13 finally it happened

16 he was so amazed

15 just at 12 o'clock at night

14 keep her from getting away

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9-3-63
In4-T-C-En-48a

Fresno City Unified School District

For the answers refer -- -- T - S - 1
to the following text -

Basic Science Education Series

Resource: Spiders

Write your answers on another piece of paper. Do not write on this copy.

1. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

    c a. The little spider in the story came from an egg.
    c b. Some of the little spiders in the egg case were eaten up by their brothers and sisters.
    c c. The little spider in the story traveled for many miles before she made her first web.
    x d. An old spider taught the little spider how to make a web.
    x e. The little spider had to practice for a long time before she could make a good web.
    c f. The little spider's first web was small.
    c g. The spider had to "change her clothes" several times as she was growing up.
    c h. The spider caught insects in her web.
    c i. The spider wrapped up some of the insects she caught.
    x j. The spider lived for many years.

2. How many different kinds of spiders do the pictures on the inside covers show?

    (nine)

3. Name three kinds of spiders that catch their food in webs.

    (golden garden spider, grass spider, common house spider, black widow spider)

4. Name two spiders that make nests for themselves in the ground.

    (wolf spider, trap-door spider)

5. Name a spider that is protected by its color.

    (crab spider)

6. Name a kind of spider that jumps on insects to catch them.

    (jumping spider)

7. Fill in the two columns:

	Insects	Spiders
a. How many legs?	6	8
b. How many feelers?	2	0
c. How many main divisions in their bodies?	3	2

8. Tell one thing a garden spider can do which an ant cannot do.

    (spin silk)

MR/sam
7/19/62
In4-T-C-En-49a

For the answers refer
to the following text -

Basic Science Education Series

Resource: Spiders

Write your answers on another piece of paper. Do not write on this copy.

1. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

    x a. Most spiders live in the water.
    x b. All spiders live where it is warm the year round.
    c c. Some spiders can run about on ponds.
    x d. All spiders live out of doors.
    c e. Some spiders live high up on mountains.

2. Tell one way in which the hairs on its body help the freshwater spider.

    (Bubbles of air are caught in the spider's hair. These bubbles are carried down to a silk sack at the bottom of the pond.)

3. Tell three ways in which spiders catch insects.

    (In webs; hunting; hiding and waiting for insect prey)

4. Name four kinds of animals that are eaten by spiders.

    (Grasshoppers; other spiders; small birds; tadpoles; fish)

5. Tell five ways in which spiders travel.

    (Ballooning; running; by man, accidentally; by bird, by riding in fur of animals)

6. Tell two reasons why spiders travel.

    (To avoid enemies, to find suitable food and home)

7. Name four enemies of spiders.

    (Wasps, birds, man, spiders)

8. What spider is really an enemy of people?

    (Black widow)

9. Name two weapons spiders have.

    (Poison fangs; pedipalps)

10. Name five kinds of webs.
    (Orb; triangle; dome; funnel; bowl)

11. Tell two ways in which spiders help us.
    (Killing insect enemies; supplying us with spider silk)

12. Why isn't it easy to raise hundreds of spiders?
    (They eat one another up)

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7/19/62 -
In4-T-C-En-49a

For the answers refer to the following text - T - S - 3

Basic Science Education Series

Resource: Seeds and Seed Travels

Write your answers on another piece of paper. Do not write on this copy.

1. What is a seed?

   (Every seed is a tiny plant. Every seed has in it some food for the little plant to live on as it is starting to grow.)

2. Where do seeds come from?

   (Most seeds come from flowers.)

3. What do the first two pictures on page 8 and the picture on page 6 help tell you?

   (Some flowers are small and are not bright colors.)

4. In what way are all the seeds in the picture on page 20 alike?

   (All have wings.)

5. What is likely to happen if seeds travel very far by water?

   (They will die.)

6. Tell how the seeds of the plant in the picture on page 28 are scattered.

   (They have seed-holders that are like boats. They float away.)

7. Why is it important for seeds to have good ways of traveling?

   (So that new plants will grow and produce new seeds.)

8. Tell three ways in which seeds travel.

   (May be carried by cars and wagons, animals, and with the wind)

9. How do the seeds shown in the pictures on page 33 travel?

   (Catch a ride on wagons, cars or even a person)

10. Name one other kind of seed that travels in the same way.

    (Spanish needles)

11. What kind of plant is shown in the picture at the top of page 31? How does this plant scatter its seeds?

    (Tumbleweed. The whole plant dries up and then is blown away, scattering its seeds as it rolls away.)

12. Notice the picture of the squirrel on page 30. What do squirrels have to do with seeds and seed travels?

    (Sometimes squirrels plant seeds.)

13. What seeds sometimes go coasting?

    (Locust seeds)

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7/19/62
In4-T-C-En-49a

For the answers refer to the following text - T - S - 4

Basic Science Education Series

Resource: Animals of the Seashore

Write your answers on another piece of paper. Do not write on this copy.

1. Are the jellyfish in the picture on page 4 more or less than a month old? How do you know?

   (More.- It takes a moon jelly several months to grow into a free swimming form.)

2. What gives comb jellies their name?

   (They have combs made of hairs that are fastened together like the teeth of a comb.)

3. What do you think is the most surprising thing about the Portuguese man-of-war?
   (It is really a whole community of tiny animals.)

4. How does a periwinkle protect itself?
   (It can shut itself up very tightly in its shell.)

5. Name two enemies of the oyster.
   (Starfish and oyster drill)

6. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

   c a. A clam has two shells.
   x b. A clam breathes with lungs.
   c c. Some clams are good to eat.
   x d. A clam catches its food with long feelers.
   c e. Some clams are more than a yard across.

7. Some of these animals have one shell; some have two. Draw a line under each one that has one shell. Draw two lines under each one that has two shells.

   abalone cowry toothshell cockle

   scallop oyster drill calico clam mussel

8. What is the long worm at the top of the picture on page 23?
   (Clam worm)
   What is the little worm in the center of the picture?
   (Sea mouse)

9. Match these parts of sentences:

   (a) The worms at the bottom of the picture on page 23 stay in their burrows all the time.
   (b) Winges tube worms catch food with their gills.
   (c) Clam worm catch their food with their sharp jaws.

10. How do the animals in the picture on page 24 bother people?

    (They attach themselves to the bottom of boats and ships.)

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7/19/62
In4-T-C-En-49a

For the answers refer to the following text - T - S - 5

Basic Science Education Series

Resource: Animals of the Seashore

Write your answers on another piece of paper. Do not write on this copy.

1. Some of these sentences are true; some are not. Put C in front of each sentence that is true and a X in front of each sentence that is not true.

   x a. Lobsters eat seaweed.
   c b. A lobster that loses a claw can grow a new one.
   c c. A lobster sheds its coat often during its life.
   c d. Most lobsters spend the summers in shallow water and the winters in deeper water.
   x e. Lobsters never fight with one another over food.

2. Name a crab that uses another animal's shell as its home.

   (Hermit crab)

3. In what queer way does the spider crab protect itself?

   (It uses both plants and animals to protect itself. It sticks seaweed and small animals on its back and its long legs.)

4. Why is a horseshoe crab sometimes called "a living fossil"?

   (Because they are so much like some animals of long ago.)

5. Name four cousins of the starfish.

   (Sea lily, sea urchin, sea cucumber, sand dollar)

6. Underline each right ending for this sentence:

   clams.
   starfish.
   Pearls are found in - oysters.
   sand dollars.
   lobsters.

7. How is the water in the sea different from the water in a river?

   (Sea water is salty and river water is fresh.)

8. How can the animals that live in one place along the seashore most of their lives get all the food and oxygen they need?

   (The tides carry food to them. The tides keep the water along the seashore stirred up so that it always has plenty of oxygen in it.)

9. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

   c a. Most of the animals of the seashore are animals without backbones.
   c b. The animals of the seashore are fitted for living in salt water.
   x c. All seashore animals eat the same kinds of food.
   c d. The seashore animals have different ways of protecting themselves.
   x e. Almost every baby animal on the seashore lives to grow up.

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7/19/62
In4-T-C-En-49a

For the answers refer to the following text - T - S - 6

Basic Science Education Series

Resource: Birds

Write your answers on another piece of paper. Do not write on this copy.

1. Tell six ways in which all the kinds of birds in the pictures in this book are alike. (Warm blooded; all have backbones; two legs; two wings; all have lungs; all have feathers.)

2. Tell three ways in which the penguin on page 4 is not like the hummingbird on page 5. (Size; ability to fly; color)

3. Name a bird that is a cousin of the red-headed woodpecker.
(Downy woodpecker or the yellow bellied sapsucker)

4. Name a bird that belongs to the same family as the bluebird. (Robin)

5. Name a bird that is a cousin of the Baltimore oriole.
(Cowbird or the blackbird)

6. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

x a. All brown birds are in the same bird family.
x b. There are only about ten bird families.
x c. All birds in the thrush family like to live near people.
c d. People have to study birds' feet and bills and wings to find out which birds are cousins.
x e. A female bird is always the same color as her mate.

7. Tell how each of these birds got its name:

(From their song or cries) bob-white
(From their food) flycatcher
(They peck holes in wood.) woodpecker

oven-bird (It's nest is like a tiny outdoor oven.)
red-winged blackbird (From their looks)

8. Tell which nest on the inside front cover is which.

1. Mourning dove
2. Pied-billed grebe
3. Baltimore oriole
4. Hummingbird
5. Cliff swallow
6. Meadowlark
7. Crested flycatcher
8. Chimney swift

(Pictures numbered left to right.)

9. On the inside back cover are pictures of the bills of several birds. List these birds. After it's name tell one thing each bird eats.

Hummingbird - nectar
Song sparrow - seeds
Crested flycatcher - insect
Pelican - fish
Great horned owl - mice and other small animals
Woodcock - worms

10. Tell two kinds of work that birds do with their bills.
(Get food and build houses)

11. Tell how each of the birds pictured on page 34 helps us.
(They kill insects and eat weed seeds)

12. Tell how each of the birds pictured on page 35 helps us.
(Eat dead animals and field mice)

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7/20/62
In4-T-C-En-49a

For the answers refer to the following text - T - S - 7

Basic Science Education Series

Resource: Clouds, Rain, and Snow

Write your answers on another piece of paper. Do not write on this copy.

1. What is happening in the first picture on page 9? What is happening in the second picture?

   (Water is evaporating.) (Water is falling from clouds.)

2. What do we call the changing of water to water vapor?

   (Evaporate)

3. What has to happen to water vapor to change it to water?

   (First, be cooled and changed to tiny drops of water.)

4. Name three kinds of clouds.

   (Stratus clouds, cirrus clouds, cumulus clouds)

5. What are the clouds shown at the bottom of page 11 made of?

   (Either water or ice)

6. What are fogs?

   (A cloud that is very near the ground.)

7. Why are they dangerous?

   (Hard to see through them)

8. Name six kinds of crystals.

   (Ice crystals, sugar crystals, alum crystals, quartz crystals, feldspar crystals, garnet crystals)

9. In what kind of weather are icicles formed?

   (Cold weather)

10. Name two kinds of frozen raindrops.

    (Sleet and hail)

11. What does the picture on page 30 tell you about the weather when the picture was taken?

    (Temperature above freezing, much moisture in the air)

12. Name the colors in the rainbow.

    (Red, orange, yellow, green, blue, indigo, violet)

13. Draw a double rainbow.

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7/20/62
In4-T-C-En-49a

For the answers refer to the following text - T - S - 8

Basic Science Education Series

Write your answers on another piece of paper. Do not write on this copy.

1. What are tadpoles? (Baby frogs)

2. Fill the blanks in these sentences:

   a. The tadpole breathed with ___gills___.
   b. The ___hind___ legs of the tadpole came out first.
   c. The tadpole ___slept___ during the winter.
   d. While a tongue was growing in its mouth, the tadpole lived on its ___tail___.
   e. The frog the tadpole turned into, breathed with ___lungs___.
   f. The frog ___slept___ during the winter.
   g. The tadpole ate mostly ___plants___.
   h. The frog it grew into, ate ___animals___.
   i. As the frog grew, it shed its ___skin___ several times.

3. Tell one way in which a toad's tongue is different from yours.
   (Theirs are fastened at the front instead of the back.)

4. Name two ways that frogs and toads are different.
   (Frogs have small teeth - toads have none. Frogs have soft moist smooth skins. Most toads have tough, dry skins covered with little bumps.)

5. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

   ___x___ a. All toads and frogs are the same color.
   ___x___ b. All toads and frogs are the same size.
   ___c___ c. All grown-up toads and frogs have lungs.
   ___c___ d. Most toads and frogs are tadpoles when they are first hatched.
   ___c___ e. All frogs and toads have four legs.

6. Tell two ways in which a wood frog is different from a common toad.
   (Same as answer four)

7. Where do frogs and toads live? (Live part of their time in water; some live in trees.)

8. What do frogs and toads eat? (Plants and animals; most frogs and toads eat insects.)

9. How do toads and frogs take a drink?
   (By soaking in water through their skins.)

10. Name four animals that kill toads and frogs.
    (Snakes, skunks, hawks and owls)

11. Tell three ways in which toads help us.
    (Eat insects; furnish medicine; furnish leather)

12. Tell three ways in which frogs help us.
    (Eat insects; furnish food; help doctors make discoveries about how our bodies work.)

13. The ___salamanders___ are cousins of the toads and frogs. They are amphibians, too.

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7/20/62
In4-T-C-En-49a

For the answers refer to the following text -

Basic Science Education Series

Resource: Magnets

Write your answers on another piece of paper. Do not write on this copy.

1. The two parts of an electric magnet are the coil of wire and the core.

2. What kind of magnet is the one in the picture on page 2?
   (An electromagnet)

3. What will happen when the man who is working the magnet in the picture on page 2 opens the switch?
   (The steel pieces will drop.)

4. Put a P in front of the sentences that tell about permanent magnets. Put an E in front of the ones that tell about electric magnets.

   P a. They are magnets all the time.
   E b. They are magnets some of the time.
   E c. You can make them both pick up and drop things.
   E d. They are made of iron.
   P e. They are made of steel.

5. Tell two ways in which permanent magnets and electromagnets are alike.

   (They attract the same thing. They both have poles.)

6. Tell one way in which permanent magnets are different from electromagnets.

   (Permanent magnets are magnets all the time.)

7. Put a C in front of the sentences that are true. Put a X in front of the sentences that are not true.

   x a. All magnets keep their magnetism.
   c b. Electric magnets are not magnets unless a current of electricity is flowing through them.
   x c. A big magnet is always stronger than a little magnet.
   x d. Two poles that are alike attract each other.
   c e. Every magnet has an N pole and an S pole.
   x f. A compass needle is an electric magnet.

For the answers refer to the following text - T - S - 10

Basic Science Education Series

Resource: Magnets

Write your answers on another piece of paper. Do not write on this copy.

1. Magnets of three different shapes are being used in the pictures on page 9. What are the three shapes?

   (Horseshoe, u-shaped, and bar magnet)

2. Here is a list of twelve things. Underline the name of each one a magnet would attract.

   steel needle
   rubber band
   iron nail
   steel nail

   silver ring
   gold ring
   brass knob
   copper penny

   glass plate
   iron filings
   sawdust
   tin can

3. Fill in the blanks in this sentence:

   __steel__ holds its magnetism better than __iron__.

4. What kind of rock is the rock in the picture on page 7 supposed to be?

   (Lodestone or magnetite)

5. Put the right words in the blanks in these three sentences.

   Two north poles __repel__ each other.
   A north pole and a south pole __attract__ each other.
   Two south poles __repel__ each other.

6. On pages 16 and 17 there are two designs made with magnets and iron filings. One was made by using a horseshoe magnet, and the other by using a bar magnet. Which is which?

   (p. 17, horseshoe magnet - p. 16, bar magnet)

7. What does the picture on page 11 show?

   (It shows an iron nail that is a magnet because it is near a strong magnet.)

8. What are three things you must be careful not to do if you want yo[illegible] permanent magnets to stay strong?

   1. Put keepers on your magnets.
   2. Be careful not to drop your magnets.
   3. Never put your magnets away with poles that are alike together.
   4. Never hold your magnets in a fire.

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7/20/62
In4-T-C-En-49a

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T - SS - 1

WHO AM I?

Write the correct answers on another piece of paper.

1. I discovered the New World on October 12, 1492. I believed you could sail to the East by sailing West, because the world was round. I named the people living in the New World "Indians." I was very brave.

   Who am I? Columbus

2. I am a Spanish explorer. I was looking for riches and went to Mexico and conquered the Aztec Indians for gold.

   Who am I? Cortes

3. I am a Portuguese sailor sent by the Viceroy of Mexico to explore the land called California. I am the first European to come to California. I found San Diego Bay. I fell and broke my arm and later died.

   Who am I? Cabrillo

4. I am an English explorer. I plundered the Spanish ships because England disliked Spain. I stopped on the coast of California for food and water and claimed the land for England. When I returned to England, I had sailed around the world.

   Who am I? Drake

5. Spain needed a friendly harbor for the Manila galleons to get food and water. I was sent to find this harbor north of San Diego. I found the same bay that Drake found. A storm came up and the ship was wrecked and I had to get back to Mexico in a small boat.

   Who am I? Cermenho

6. I discovered Monterey Bay. I thought it was a quiet, safe harbor like we needed for the galleons. It was a good place to build a town. I returned to Mexico to tell them. I missed the best harbor of all.

   Who am I? Viscaino

Drake Cermenho Viscaino Cabrillo Columbus Cortes

1. C O R T E S CTEROS
2. C E R M E N H O HEEMNCOR
3. C O L U M B U S LMUOSCBU
4. D R A K E ERKDA
5. V I S C A I N O NIISVAOC
6. C A B R I L L O BCLLIOAR

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WHICH JOHN AM I?

In the early days of California history, there were several very important men whose first name was John. Can you tell which John these riddles are about?

Write your answers on another piece of paper. Do not write on this copy.

1. I was sent west by the United States to make maps of the trails that trappers had found. John Sutter helped my party. My reports made many people want to come to California. Which John am I?

   1. John Fremont

2. I studied to be a doctor. I heard stories about California from the trappers. I settled down in the Central Valley of California. Which John am I?

   2. John Marsh

3. I was not an American citizen before I came to California by ship. I built an important settlement between the Sacramento River and the American River. Which John am I?

   3. John Sutter

4. I was secretary of a wagon train that headed west from Independence, Missouri. I guided the party over the Sierra Nevada Mountains from the desert country of Utah and Nevada. Which John am I?

   4. John Bidwell

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7-16-62
In4-T-C-En-51a

NAME GAME

Write the correct answers to the riddles on another piece of paper.

Choose your answers from the word list.

Los Angeles
Pony Express
San Jose
El Camino Real
San Diego
San Pedro Bay
Anza Trail
Sutter's Fort
Butterfield & Co.
Santa Barbara
Cajon Pass
Union Pacific
San Bernardino
Old Spanish Trail
San Francisco Bay
Donner Pass
Central Pacific
Monterey
Sacramento
Half Moon Bay
Santa Fe

1. I am a highway. I was once a trail that went from one presidio to another from San Diego to San Francisco. I was the route followed by the Spanish king's messengers. What is my name?

El Camino Real

2. I was a company which carried the mail from San Francisco to St. Louis. I had the best of horses, well-built strong stages, and skillful drivers. I carried mail in good weather and in storms. What is my name?

Butterfield & Co.

3. I was a railroad company. I was one of two companies which built the first railroad across the continent. I started building in Sacramento and went toward the east. What is my name?

Central Pacific

4. I am a city. About four and one-half million people live in or near me. I have become a great city because so many early routes passed through me. I had no good harbor until my citizens built one for me. What is my name?

Los Angeles

5. I am a mountain pass. I lead through the mountains from the San Bernardino Valley into the Mojave Desert. Jebediah Smith was one of the first travelers to pass through me. What is my name?

Cajon Pass

6. I am a bay. I have one of the finest natural harbors in the world. Many great cities have been built on my shores. Almost two and one-half million people live in all of these cities. Ships enter me through the Golden Gate. What is my name?

San Francisco Bay

7. I am a town on the California coast. I was the capital of Spanish California. My presidio was the largest army post in Spanish California. What is my name?

Monterey

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7-16-62
In4-T-C-En-51a

NAME GAME

Write the correct answers to the riddles on another piece of paper.

Choose your answers from the word list.

Flood
Dredger
Weir
Causeway
Aqueduct
Water Vapor
Levee

1. I am on the banks of rivers and streams. I keep water from overflowing into the beautiful farmlands. Sometimes highways are built on top of me. What am I? Levee
2. I am like a wide, low dam. My top is a little lower than a levee. Water runs over my top into a channel which carries it into the lowlands beside the river. What am I? Weir
3. I am like a long bridge. I stretch over marshlands or shallow water. I carry traffic. What am I? Causeway
4. I was built by the early padres and Indians of the Spanish missions. I was used to water their vineyards, orchards, and gardens. I was built of stone. What am I? Aqueduct
5. I am lighter than air. When I rise up into the air, I cannot be seen. When I am cooled, I change into fog or clouds. What am I? Water Vapor
6. I caused heavy damage in the early days of California. I tore down buildings. I caused entire families and livestock to drown. I was hard to control. What am I? Flood
7. I am a machine used for building levees along a river. I scoop up mud from the river bed and drop it along the river bank. What am I? Dredger

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7-16-62
In4-T-C-En-51a

SPANISH WORD GAME

Write the correct answers on another piece of paper.

Choose your answers from the word list.

raisins
presidio
rodeo
mano
tortilla

rancho
pueblo
ranchero
yoke
vaquero

jerky
sickle
riata
era
carreta

jerga
serape
padre
señorita
señor

1. Wooden bar laid across the head of oxen used to pull heavy loads: yoke
2. Sharp curved knife of steel used to cut grain: sickle
3. Threshing ground for wheat: era
4. Rope with a loop at the end: riata
5. Dried beef: jerky
6. Cowboy: vaquero
7. Round-up: rodeo
8. Owner of a ranch: ranchero
9. Town: pueblo
10. Fort: presidio
11. Land used for raising cattle: rancho
12. Thin round cake: tortilla
13. Dried grapes: raisins
14. A grinding stone: mano
15. A Spanish cart: carreta
16. Kind of wool cloth: jerga
17. Blanket to wear as an overcoat: serape
18. Father: padre
19. A man: señor
20. A young lady: señorita

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7-16-62
In4-T-C-En-51a

T - SS - 6

FACTS ABOUT WASHINGTON AND LINCOLN

Write the correct answers on another piece of paper.

1. Washington I was the first president of the United States.
2. Lincoln I was born in Kentucky.
3. Lincoln My picture is on a five dollar bill.
4. Washington I lived on a plantation.
5. Washington I was born in Virginia.
6. Washington At an early age I was a successful surveyor.
7. Washington I owned slaves.
8. Washington I helped the thirteen colonies gain their freedom from England.
9. Washington My picture is on a one dollar bill.
10. Lincoln I was assassinated.
11. Lincoln The first president of the United States was my hero.
12. Lincoln I was against slavery.
13. Washington Mount Vernon was my home.
14. Lincoln I was the sixteenth president of the United States.
15. Lincoln I was a lawyer before I became president.
16. Lincoln I was a champion rail splitter.
17. Lincoln My mother taught me to read because I had little chance to go to school.
18. Lincoln The Negroes gained their freedom while I was president.
19. Washington I was born February 22, 1732.
20. Lincoln I was born February 12, 1809.
21. Lincoln I was president of the United States during the Civil War.
22. Lincoln I was a successful farmer.
23. Washington I was reared in the midst of plenty, but I was able to stand hardships, too.

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7-16-62
In4-T-C-En-51a

LET'S TAKE A TRIP IN CALIFORNIA

Let's take a trip on Highway 99 starting at our southern boundary and traveling north to Oregon. Using a road map, list the cities we would go through.

Write the correct answers on another piece of paper.
Do not write on this copy.

1. San Diego
2. Santa Ana
3. Los Angeles
4. Bakersfield
5. Fresno
6. Madera
7. Merced
8. Modesto
9. Stockton
10. Sacramento
11. Red Bluff
12. Redding
13. Yreka

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7-16-62
In4-T-C-En-51a

LET'S TAKE A TRIP IN CALIFORNIA

Today let's travel Highway 101 from Oregon to Mexico. We'll start in Crescent City and travel south. What cities will we go through? Write the answers on another piece of paper.

1. Crescent City
2. Eureka
3. Ukiah
4. Santa Rosa
5. San Rafael
6. San Francisco
7. Redwood City
8. San Jose
9. San Luis Obispo
10. Santa Barbara
11. Ventura
12. Los Angeles
13. Santa Ana
14. San Diego

INTERESTING THINGS ABOUT CALIFORNIA

Write the correct answers on another piece of paper.

1. The California State Tree is the California redwood.

2. The California State Flower is the golden poppy.

3. The California State Bird is the California Valley Quail .

4. California State's colors are blue and gold.

5. The California State Seal has 31 stars.

   This tells us that California was the 31st state to join the United States.

6. The California State Flag has what animal on it? grizzly bear

7. California is the only state in the United States where the redwood tree grows.

8. The capital of California is Sacramento.

9. Mount McKinley is the highest mountain in California. This mountain is also the highest place in the United States if you do not count Alaska.

10. Mount Lassen is the last active volcano in the United States, excepting Alaska. This mountain is in California.

11. Mount Shasta, in California, is a very beautiful mountain at the top of the Central Valley.

12. San Francisco, in California, is one of the finest natural harbors in the world.

13. Excepting Alaska, California has the longest coastline of any state in the United States.

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7-16-62
In4-T-C-En-51a

T4 - SS - 10

SOCIAL STUDIES LETTER GAME

When you put the letters in their proper order, each group of letters will spell out the name of one of the early explorers. Write your answers on another piece of paper.

1. C O R T E Z   T R Z E C O
2. C E R M E N H O   H E E M N C O R
3. C O L U M B U S   L M U O S C B U
4. D R A K E   E R K D A
5. V I S C A I N O   N I I S V A O C
6. C A B R I L L O   B C L L I O A R

DRAKE
VISCAINO

CERMENHO
COLUMBUS

CORTEZ
CABRILLO

Matching

	I		II
c	1. Flint is a stone that	a.	because they split easily.
a	2. Redwood and cedar were used	b.	vines because there were no nails.
b	3. Poles were tied together by	c.	can be chipped to make a sharp edge.
f	4. Twine was made	d.	made into leather for clothing and shoes.
d	5. The skin of animals was	e.	strong cords to catch animals.
e	6. Traps were made of	f.	from the stems of certain plants.
g	7. Fish were caught with	g.	nets and traps, or hooks and lines.
i	8. Boats were made from	h.	and rafts.
h	9. Indians made boats	i.	logs or tule reeds.

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9-4-63
In4-T-C-En-51a

T4 - SS - 11

EXPLORERS

How many can you remember?

Write your answers on another piece of paper.

1. I discovered the New World on October 12, 1492. I believed you could sail to the East by sailing West, because the world was round. I named the people living in the New World "Indians." I was very brave.

   Who am I? COLUMBUS

2. I am a Spanish explorer. I was looking for riches and went to Mexico and conquered the Aztec Indians for gold.

   Who am I? CORTEZ

3. I am a Portuguese sailor sent by the Viceroy of Mexico to explore the land called California. I am the first European to come to California. I found San Diego Bay. I fell and broke my arm and later died.

   Who am I? CABRILLO

4. I am an English explorer. I plundered the Spanish ships because England disliked Spain. I stopped on the coast of California for food and water and claimed the land for England. Then I returned to England. I had sailed around the world.

   Who am I? DRAKE

5. I took over, when Cabrillo died, as captain of the ships. I sailed up the California coast and then back to Mexico.

   Who am I? FERRELO

6. Spain needed a friendly harbor for the Manila galleons to get food and water. I was sent to find this harbor north of San Diego. I found the same bay that Drake found. A storm came up and my ship was wrecked and I had to get back to Mexico in a small boat.

   Who am I? CERMENHO

7. I discovered Monterey Bay. I thought it was a quiet, safe harbor like we needed for the galleons. It was a good place to build a town. I returned to Mexico to tell them. I missed the best harbor of all.

   Who am I? VISCAINO

FERRELO

DRAKE

CERMENHO

VISCAINO

CABRILLO

COLUMBUS

CORTEZ

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9-4-63
In4-T-C-En-51a

T4 - SS - 12

CALIFORNIA HISTORY

__Write your answers on another piece of paper.__

Matching

1. Blubber
2. Mission
3. Pueblo
4. Drake
5. Serra
6. Portola
7. Yankees
8. Valquero
9. Jerky
10. Irrigation

5 Father
3 City
9 Meat
4 "Golden Hind Ship"
2 Adobe
7 Americans
6 Governor
10 Watering
1 Whale
8 Cowboy

* *

Fill In

1.	A person from America	Yankee
2.	A town or village	Settlement
3.	An animal with a fine fur	Beaver
4.	Something torn or worn out	Ragged
5.	A person who searches for new lands	Explorer
6.	People who exchange things, like furs for silks	Trader
7.	A person who catches animals	Trapper
8.	To allow a person to do what he asks	Permission
9.	A hot, dry land	Desert

TRAPPER
YANKEE
SETTLEMENT
DESERT
RAGGED
EXPLORER
BEAVER
PERMISSION
TRADER

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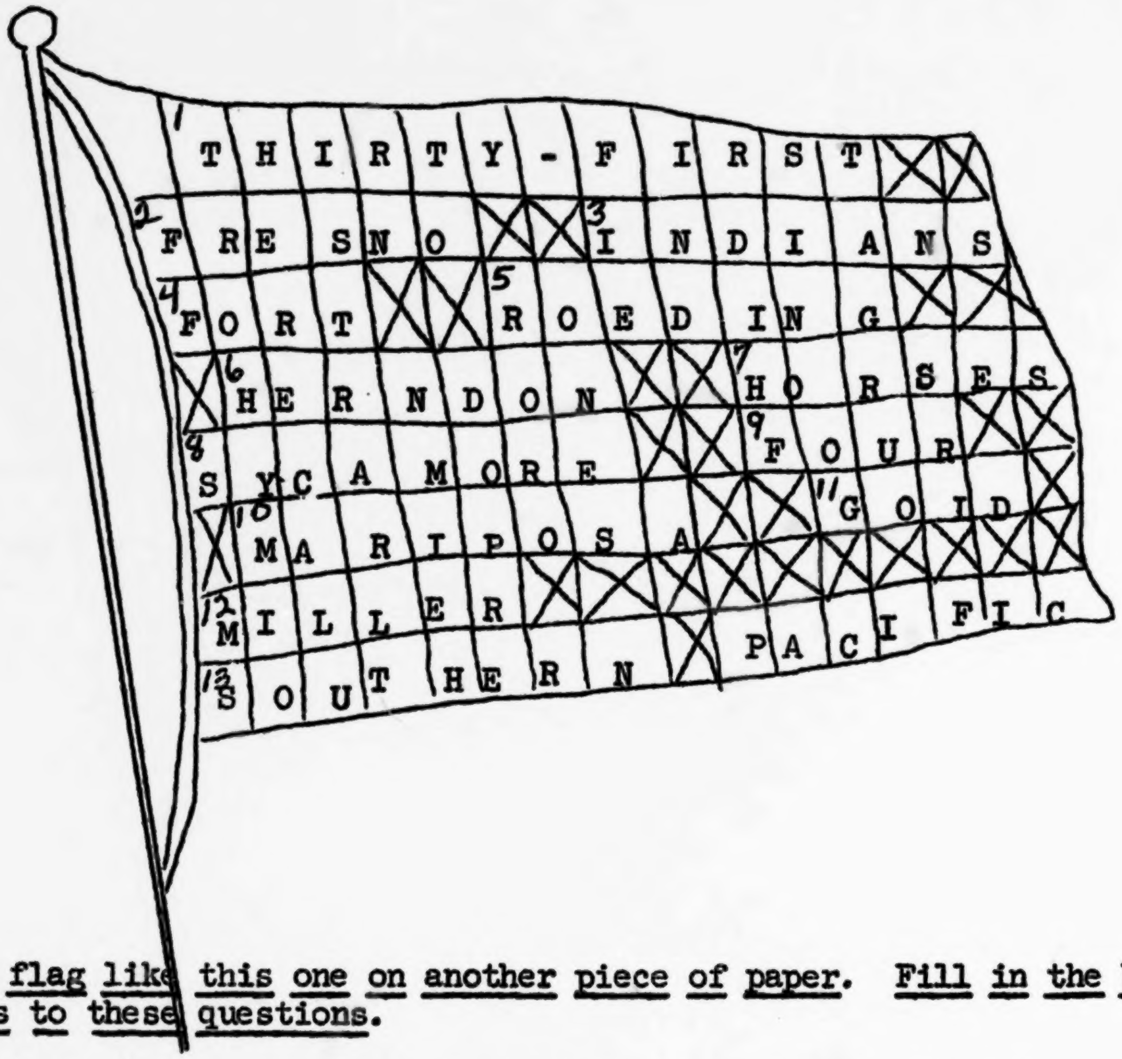
9-4-63
In4-T-C-En-51a

SOCIAL STUDIES


1 THIRTY-FIRST
2 FRESNO
3 INDIANS
4 FORT
5 ROEDING
6 HERNDON
7 HORSES
8 SYCAMORE
9 FOUR
10 MARIPOSA
11 GOLD
12 MILLER
13 SOUTHERN PACIFIC

Draw a flag like this one on another piece of paper. Fill in the blanks with the answers to these questions.

1. California was the (give number) state admitted to the Union.
   Ans. Thirty-First
2. This county was formed in 1856. Ans. Fresno
3. These were the first people to live in the San Joaquin Valley.
   Ans. Indians
4. This was built to protect people against the Indians. Ans. Fort
5. We can see the old block house at this park. Ans. Roeding
6. The Central Pacific Railroad was building a railraod from this town.
   Ans. Herndon
7. One of the fastest ways to travel in 1856 Ans. Horses
8. A word that was the name of Herndon Ans. Sycamore
9. The number of counties Mariposa was divided into Ans. Four
10. Fresno County was formed from a part of this county. Ans. Mariposa
11. The miners were searching for this. Ans. Gold
12. Fort Miller was named for this man. Ans. Miller
13. The name now given to the Central Pacific Railroad.
    Ans. Southern Pacific

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9-4-63 - In4-T-C-En-51a

T4 - SS - 14

NAME GAME

Write your answers on another piece of paper.

1. I studied at Harvard University. I came to California and settled near Mt. Diablo. I made friends with the Indians. I was the first white man to ever try building a home in the Central Valley.

   What is my name? John Bidwell

2. I am a river. Sutter explored me. He built his fort near the place where the American River runs into me.

   What is my name? Sacramento River

3. I was a citizen of Switzerland before coming to America. I built a fort in California. I built a flour mill at my fort.

   What is my name? John A. Sutter

4. I am a range of mountains. Fremont and Kit Carson crossed over me. Many people passed over me to get to the Central Valley.

   What is my name? Sierra Nevada

5. I am an American Army officer. I was sent by the United States Government to explore the West. Andres Pico surrendered to me at Cahuenga Pass.

   What is my name? John Fremont

6. I am a flag. A red star is in my corner. A grizzly bear is in my center. The words "California Republic" are written on me.

   What is my name? Bear Flag

7. I came to California when I was only twenty-one years old. I helped lead a company to California. I went to work for Sutter. I started the town of Chico.

   What is my name? John Marshall

Words

Father Serra

John Bidwell

John A. Sutter

Sierra Nevada

Sacramento River

Coast Range

John Marshall

Bear Flag

Kit Carson

Colorado River

Stars and Stripes

John Fremont

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9-4-63
In4-T-C-En-51a

ROAD MAPS ARE FUN!!

Let's take a trip and use a road map of California. As we travel along through California list the cities you are asked to find for each trip. Write your answers on another piece of paper.

TRIP I.

Travel from Fresno to Shasta Dam. As you go, list as many large cities as you can find on Highway 99.

TRIP II.

Travel by train from Los Angeles to Eureka. List at least 6 big cities you would pass through. (The map on p. 42 in text might help.)

TRIP III.

Travel by boat from San Diego to Crescent City. Name 6 ports at which you might stop on the way.

I.	II.	III.
Fresno	Los Angeles	San Diego
Madera	Ventura	San Pedro
Modesto	Santa Barbara	Los Angeles
Stockton	San Luis Obispo	Santa Barbara
Sacramento	Monterey	Morro Bay
etc.	Santa Cruz	Monterey Bay
	San Jose	S. F. Bay
	San Francisco	Drake's Bay
	etc.	Humbolt
		etc.

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T4 - SS - 16

CALIFORNIA TODAY
OUR MOST PRECIOUS RESOURCE
(pp.161-163)

Can you change the spelling of the underlined words to make the correct words to complete the sentences? Write your answers on another piece of paper.

Water resource
1. Rewat is our most precious usorcere.

ocean
2. Water for our cities and farms come from the naceo.

salty
3. Ocean water is sylat.

vapor
4. The sun shines over the ocean and it's heat turns some of the water into porva.

evaporated
5. When water turns to vapor because of heat we say it has portavadee.

cooler
6. The air high above the sea is locero than near the water.

tiny drops water
7. The cool air changes the vapor into nity pords of rewat.

8. Once the vapor has changed to water we can see it. If it is high in the air
clouds
we call it slucod.

fog
9. If the vapor is close to the ground we call it gof.

winds cool
10. The swdin blow in from the sea and keep the coastland loco.

rain Central Valley
11. During the winter storms much nair falls on the coastland and the trencal lavley.

sea creeks rivers
12. Much of the winter rain flows back into the ase through erecks and srevir.

13. Not all the clouds from the sea are turned into rain. As the clouds are
cold
driven over the Sierra Nevada peaks the air is very locd.

freezes snow
14. The rain rezefes and turns into nows that falls on the mountain tops.

water shade
15. Forests help save our retwa in two ways. Their deash keeps the snow from the
sunshine soil sponge
shunesin and the lois acts like a nogsep.

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T4 - SS - 17

CALIFORNIA TODAY

REGIONS OF CALIFORNIA

(pp. 29-31)

Can you match each region of the left with the description on the right so that each sentence will be finished correctly? Write your answers on another piece of paper.

1	1. Central Valley	1. contains many acres of rich farming land.
3	2. From the snow fields of the Sierra Nevada	2. is rough, dry, and very hot.
4	3. The long coast region	3. comes much of the water used in California.
2	4. Our desert land	4. has mountains from the southern to the northern boundary of the state.

Fit the word to the definition to finish each sentence.

10 1. A drawing, usually on a flat surface, of all or part of the earth's surface is a map.

5 2. A drawing, showing by lines, shading or color, the different heights of land forms, as hills and valleys is a relief map.

1 3. A stretch of lowlands lying between hills or mountains is a valley.

9 4. A natural raised part of the earth's surface larger than a hill is a mountain.

2 5. A dry barren region, usually treeless and sandy is a desert.

3 6. Land alongside a seashore is a coast.

4 7. Part of sea indenting the shoreline is a bay.

6 8. A harbor where ships arrive and depart is a port.

8 9. Anything marking a limit is a boundary.

7 10. A certain part of our state that is different from other parts of the state is called a region.

1. valley
2. desert
3. coast
4. bay
5. relief map
6. port
7. region
8. boundary
9. mountain
10. map

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Fresno City Unified School District

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A - 1

SCRAMBLED SENTENCES ABOUT NUMBERS

Here are some sentences about arithmetic. The words are mixed up. Make a good sentence by putting the words in correct order. Example: 1 is done for you.

Write your answers on another piece of paper.

1. one equals ten ones ten

   One ten equals ten ones.

2. is nine more eight one than

   ____

3. nickels equal two dime one

   ____

4. subtract you are how many find left to

   ____

5. has 12 ten 1 number the

   ____

6. 12 foot a equal inches are to

   ____

7. is the subtrahend of the difference and the sum the minuend

   ____

8. to subtract you are needed many more how find

   ____

9. when a number means zero called is not any it

   ____

10. VI for stand and number the 6 same

   ____

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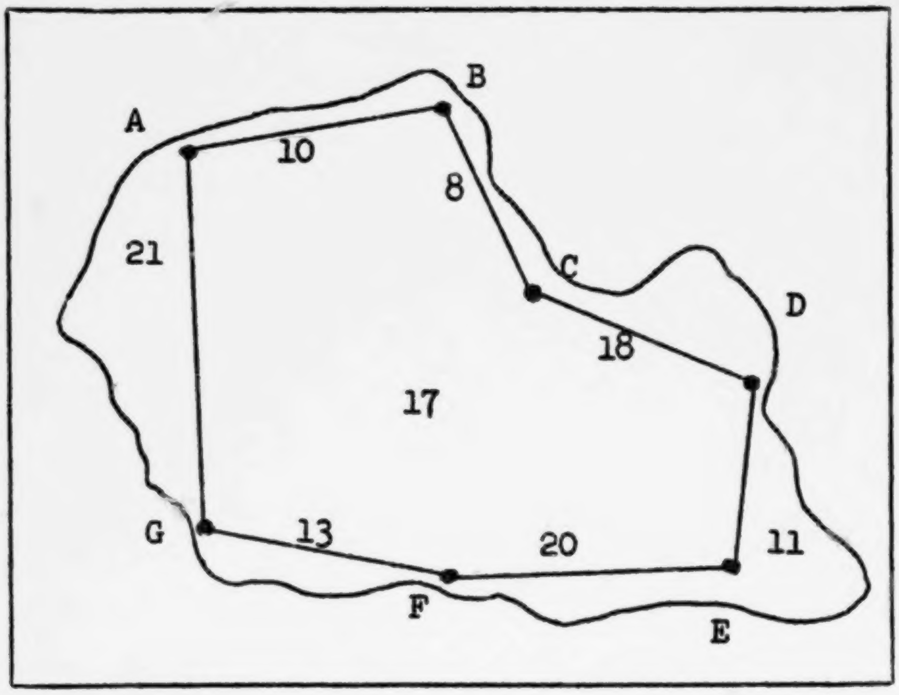
PROBLEMS AROUND US



This is a map of Sailfish Island. The numbers show the miles between towns. The letters stand for the following towns.

A - Northside
B - Surfville
C - Alma
D - Ocean View
E - Seashore
F - Mountain Dale
G - Westside

Write your answers on another piece of paper.

1. What is the distance from Alma to Westside by way of Northside? __________
2. What is the shortest distance by road from Northside to Seashore? ________
3. How much shorter is it to go from Surfville to Westside through Northside than through Mountain Dale? ______________
4. What is the distance by road around the Island? Go through each town. __________
5. If a new highway 35 miles long were built from Westside to Ocean View, how many miles shorter would the trip be than going through Seashore?

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QUESTIONS ABOUT NUMBERS

Write your answers on another piece of paper.

1. What is the largest number that can be added to 5 so that the sum is a 1-place number? ___________
2. What is the smallest number you can add to 4 so the sum is a 2-place number? ___________
3. What are the two largest 1-place addends you can have whose sum is larger than 17 but less than 20? ___________
4. Choose numbers from 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 to answer Ex. a, b, c, and d.
    a. Which three 1-place numbers have a sum larger than the sum of any other three 1-place numbers? __________
    b. Which two 1-place numbers have the largest difference possible between any two 1-place numbers? ___________
    c. Which two 1-place numbers have a sum greater than any other two 1-place numbers? ___________
    d. Which two 1-place numbers have a sum less than any other two 1-place numbers? ___________
5. What is the largest 2-place number with 4 tens that can be added to 45 without carrying? ___________
6. What are the two largest different 2-place numbers between 20 and 30 whose sum is closest to 60? ___________
7. Write all the 3-place numbers you can, using the digits 3, 5, and 7. You may not use the same digit twice for the same number.

    ____

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In4-S-C-En-50

FOLLOW THE SIGNS

I MULTIPLY, ADD, SUBTRACT EACH TOP NUMBER BY SIDE NUMBER

	X 4	+ 3	- 2
2	8	11	9
3			
1			
5			
8			

II ADD THE COLUMNS OF ANSWERS →

	+	+	=	

III ADD THE SUMS OF THE COLUMNS →

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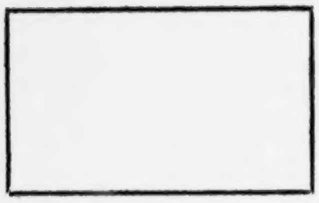
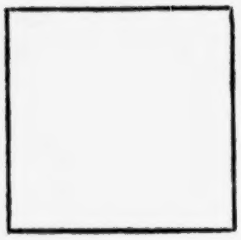
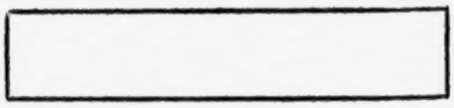
WHAT IS A RECTANGLE?







Write true if the statement is true of all rectangles.
Write some if the statement is true of only some rectangles.
Write false if the statement is false for all rectangles.

Write your answers on another piece of paper.

1. A rectangle has 4 straight-line segments for sides. __________
2. A rectangle has the same length and width. __________
3. A rectangle has opposite sides which are parallel. __________
4. All four corners of a rectangle are square. __________
5. All sides of a rectangle are the same length. __________
6. A rectangle is longer than it is tall. __________
7. A rectangle may be divided into 2 triangles. __________
8. Two opposite sides of a rectangle meet. __________
9. All squares are rectangles. __________
10. Some rectangles are squares. __________
11. Draw a four-sided figure with equal sides that is not a square.

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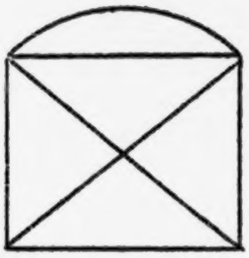
7-20-62
In4-S-C-En-50

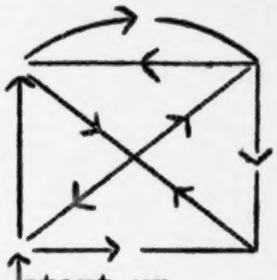
TRACING PUZZLES

Trace over this figure without breaking any of the rules below.

a. Do not lift your pencil from the paper.
b. Do not draw any part of a line segment but once.
c. Do not cross over any line.



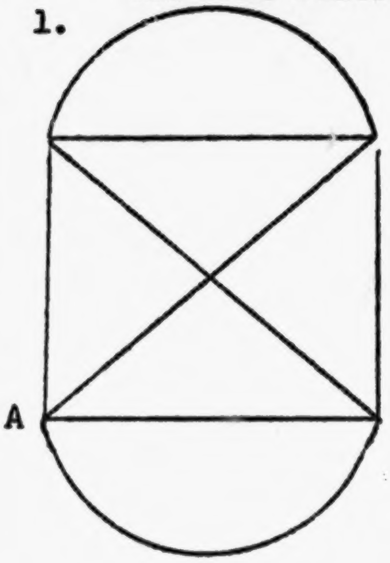
solution



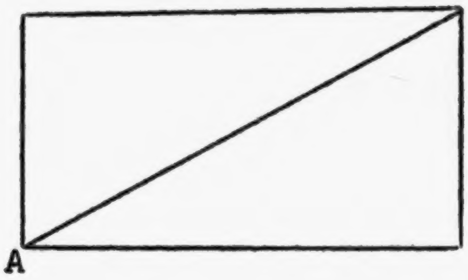
start up

Try these tracing puzzles. Start at A each time and follow the same rules as for the tracing above.

1.



2.



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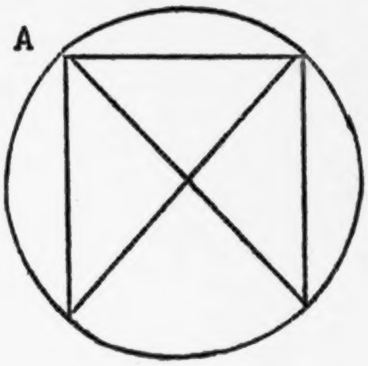

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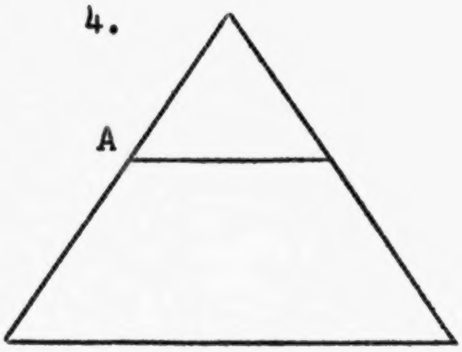
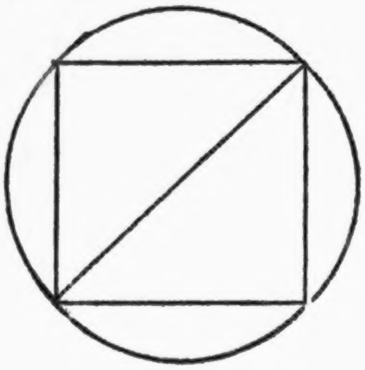
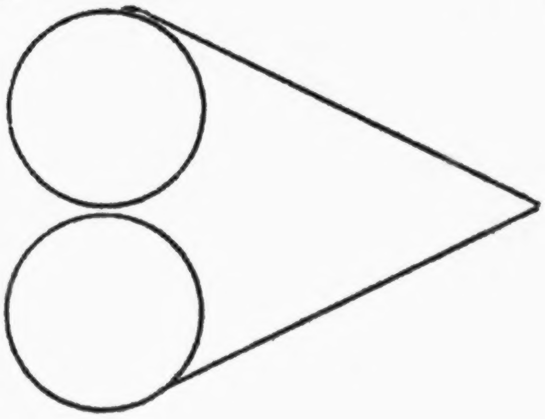


Trace these figures. One of them cannot be traced when following the rules. Try them all and don't give up too soon.

5.



6.



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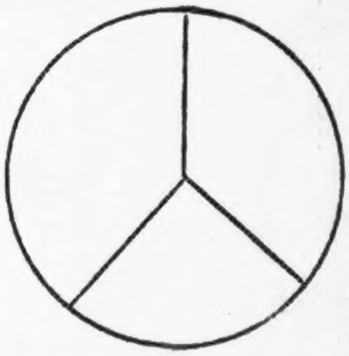

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FIND THE NUMBER

Here are some exercises in finding the one number for which all the statements in each exercise are true. All the answers for exercises on this page are whole numbers. When you think you have found the answer, check back to see if it is correct.

Write your answers on another piece of paper.

1. What number is

   a. a 2-place number,
   b. between ten and twenty,
   c. larger than ten, and
   d. less than twice as much as six?

Number ______________

2. What number is

   a. a 1-place number,
   b. between one and five,
   c. less than four, and
   d. greater than two?

Number ______________

3. What number is

   a. between two tens and three tens,
   b. less than 2 tens and 9 ones,
   c. more than 2 tens and 7 ones,
   d. an even number?

Number ______________

4. What number is

   a. between 2 hundreds and 3 hundreds,
   b. less than 2 hundreds and 3 tens and 6 ones,
   c. more than 2 hundreds and 3 tens and 4 ones,
   d. an odd number?

Number ______________

5. What number is

   a. larger than 100,
   b. an even number,
   c. not a multiple of 6,
   d. a multiple of 7,
   e. less than 200,
   f. larger than 150,
   g. less than 170?

Number ______________

ODD AND EVEN NUMBERS

Write your answers on another piece of paper:

1. The four largest 3-place odd numbers are:

   ______________ ______________

   ______________ ______________

2. The four smallest 4-place even numbers are:

   ______________ ______________

   ______________ ______________

3. The four odd numbers closest to 8 x 126 are:

   ______________ ______________

   ______________ ______________

4. The four even numbers closest to 1,016÷8 are:

   ______________ ______________

   ______________ ______________

5. The four even numbers closest to 2 less than 1/2 of 134 are:

   ______________ ______________

   ______________ ______________

6. The four odd numbers closest to 7 x 393 are:

   ______________ ______________

   ______________ ______________

7. The four odd numbers closest to 6 more than 42 x 18 are:

   ______________ ______________

   ______________ ______________

8. The four odd numbers closest to 7 less than 1/3 of 921 are:

   ______________ ______________

   ______________ ______________

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FUN WITH NUMBER NAMES

Write your answers on another piece of paper.

Here is a new game. Below are other number names for 6, 2, 20 and 24 using three 2's

a. 6 = 2 plus 2 plus 2

b. 2 = 2 plus 2 minus 2

c. 20 = 22 minus 2

d. 24 = 22 plus 2

The rules of the game are:
(a) use addition and subtraction;
(b) use place value.

1. With three 4's, write 4, 12, 40, 48.
    a. 4 =
    b. 12 =
    c. 40 =
    d. 48 =
2. With four 2's write 0, 4, 18, 22, 26, 220, 224.
    a. 0 =
    b. 4 =
    c. 18 =
    d. 22 =
    e. 26 =
    f. 220 =
    g. 224 =
3. With four 7's, write 14, 63, 91, 154, 770, 784.
    a. 14 =
    b. 63 =
    c. 91 =
    d. 154 =
    e. 770 =
    f. 784 =

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EQUATIONS AND INEQUALITIES

Write your answers on another piece of paper.

We call $3 + 4 = 6 + 1$ an equation because $3 + 4$ and $6 + 1$ stand for the same number. Statements like $3 < 4$ and $4 > 3$ are not equations. They are called inequalities. Inequalities are written with the symbols $<$ and $>$. Inequalities tell about less than and greater than.

$<$	$>$
less than	greater than

1. Write the correct symbol, = or $<$ or $>$.

a. $3 + 2$ ____ $1 + 4$

b. $2 + 5$ ____ $5 + 2$

c. $3 + 3$ ____ $3 + 3$

d. $4 + 8$ ____ $6 + 6$

e. $9 + 5$ ____ $6 + 7$

f. $8 + 6$ ____ $7 + 7$

g. $8 + 1$ ____ $9 + 1$

h. $10 - 2$ ____ $2 + 11$

2. All n's in any one example below stand for the same number. Write = or $<$ or $>$. Ex. a is done for you.

a. $n + 36$ $\underline{\ <\ }$ $n + 37$

b. $5 + n$ ____ $n + 19$

c. $6 + n$ ____ $8 + n$

d. $n + 5$ ____ $n + 3$

e. $15 + n$ ____ $n + 15$

f. $16 + n$ ____ $n + 25$

g. $n + 200$ ____ $17 + n$

h. $n + 3$ ____ $n + 2$

i. $n + 150$ ____ $150 + n$

j. $n + 46$ ____ $41 + n$

MONEY

Tell how much money and what coins you might get in change from each purchase.

Write your answers on another piece of paper.

Purchase Price	Amount Given	Amount of Change	Coins you might receive
1. $ .35	$ .50		
2. $ .84	$1.00		
3. $ .57	$ .75		
4. $ .62	$ .75		
5. $ .78	$ .80		
6. $ .17	$ .25		
7. $1.14	$1.20		
8. $1.42	$1.50		
9. $2.15	$2.50		
10. $2.38	$2.45		
11. $2.75	$3.00		
12. $2.50	$3.00		
13. $2.13	$2.25		
14. $1.87	$1.95		

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Name____________________________________ Date__________________

5	4		9	–
8	9		5	–
	8	5	4	–
4			8	–
–	–	–	–	

12	7		6	–
7		4	10	–
	5	9	7	–
2	9		15	–
–	–	–	–	

Can you make a Magic Square?

7	6		11	–
10	11		7	–
	10	7	6	–
6			10	–
–	–	–	–	

				–
				–
				–
				–
–	–	–	–	

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7-24-62
In4-S-C-En-50

S4 - A - 13

MAGIC SQUARES

Arrange the following numbers in the square so that the sum of each column, the sum of each row, and the sum of each diagonal are all equal to the same number. 10, 11, 12, 14, 15, 16, 18, 19, and 20

What is the sum? ________

Fill in the lettered squares with these numbers to form another magic square.

a. Number of days in 2 school weeks
b. Number of days in 2 full weeks
c. Number of feet in 1 yard
d. Number of cups in 1 pint
e. Number of feet in 3 yards
f. Number of quarts in 2 pecks
g. Number of minutes in $\frac{1}{4}$ hour
h. Number of quarts in 1 gallon
i. Number of hours in 1/3 day

a	b	c
d	e	f
g	h	i

What is the sum of each row? _____

9	2	10
8	7	6
4	11	5

In this square, one number is wrong.
Which number is wrong? ________
What should it be? ________
What sum should you get when you add each row? ________

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S4 - A - 14

ARITHMETIC

Write your answers on another piece of paper.

A. 8245 = 7 thousands ☐ hundreds 4 tens 5 ones

8	2	4	5
7		4	5

B. 607 = 5 hundreds ☐ tens 7 ones

C. 1392 = 1 thousand 3 hundreds ☐ tens 12 ones

D. 4781 = ☐ thousands 17 hundreds 8 tens 1 one

E. 1042 = 1 thousand 0 hundreds 3 tens ☐ ones

F. 973 = 8 hundreds ☐ tens 3 ones

G. 5204 = 5 thousands 1 hundred ☐ tens 4 ones

H. 9249 = 8 thousands ☐ hundreds 3 tens ☐ ones

I. 706 = 6 hundreds 9 tens ☐ ones

J. 352 = 2 hundreds 14 tens ☐ ones

K. 5000 = 4 thousands ☐ hundreds

L. 803 = 7 hundreds 9 tens ☐ ones

M. 450 = ☐ hundreds 15 tens

N. 7100 = ☐ thousands 11 hundreds

O. 559 = ☐ hundreds 15 tens ☐ ones

Arrange the numbers so that their sum equals the total given. No number may be used more than once for each total. (There are several correct answers.)

1	2	3	▨	4	5
6			▨	7	
8		▨	9		▨
10 3	1	8	2	▨	▨

Across

1. Ten
4. Seven
6. Twenty-one
7. Eleven
8. Fourteen
9. Eight
10. Fourteen

Down

1. Twenty-seven
2. Thirteen
3. Nine
4. Fifteen
5. Six
9. Seven

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KNOW YOUR NUMBERS

Write your answers on another piece of paper.

1. Write all the basic multiplication facts that have the following products:

   18

   28

   45

   24

2. Write all the multiplication and addition facts you must answer to find the right product for 7 x 362.

3. Write all the basic facts for any process that will give you the answer 9.

4. What is the largest 3-figure number that can be written with numbers no larger than 5?

5. Write the number that has 7 ones, 2 tens, and 4 thousands.

6. Write six numbers using the figures 2, 6, and 9.

   Which is the largest number?

   Which is the smallest number?

7. Round these numbers to the nearest 100.

   986 624 750 108

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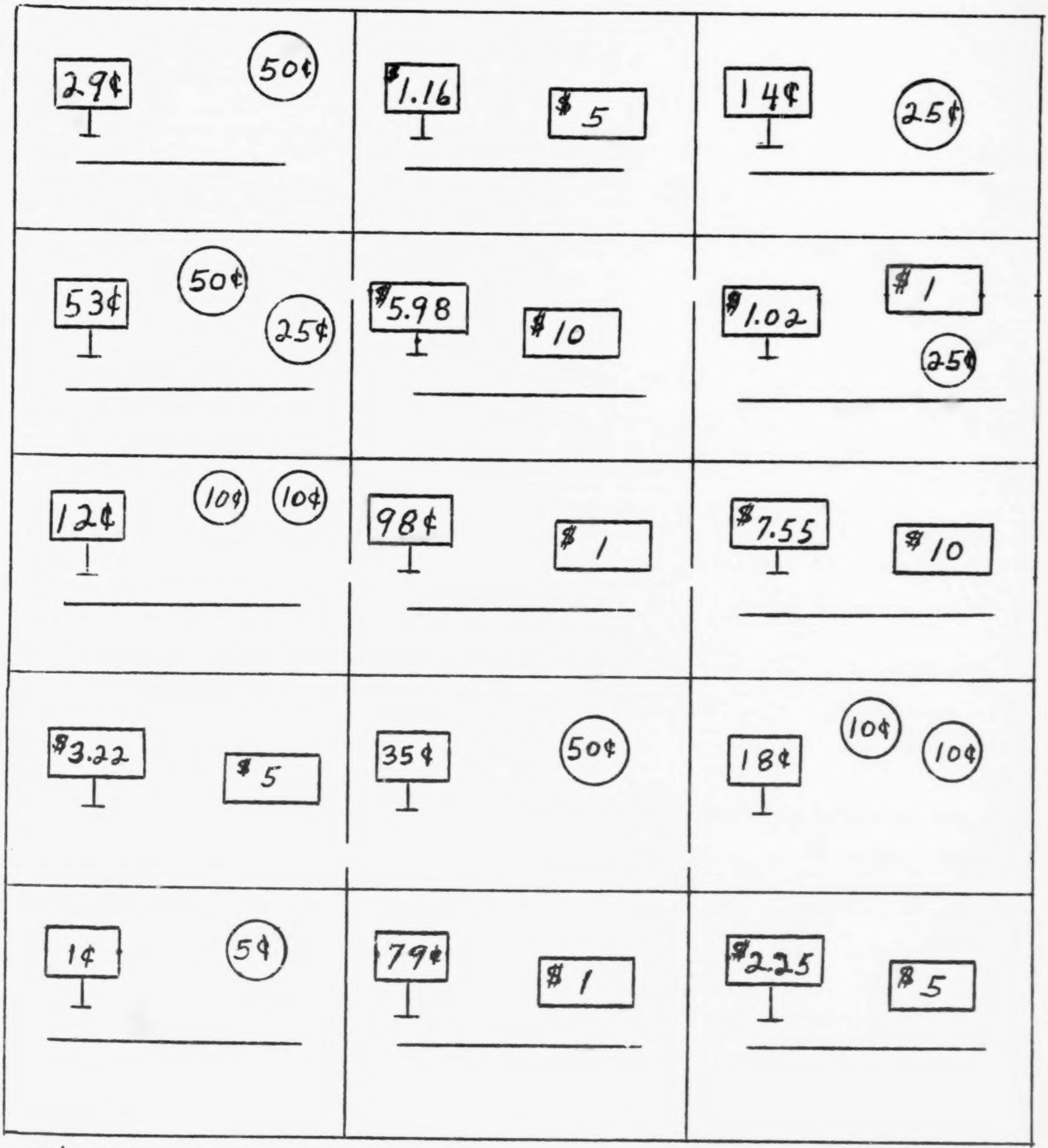
8-21-63
In4-S-C-En-50

S4 - A - 16

CAN YOU MAKE CHANGE?

Write your answers on another piece of paper.

Cost of the object is on the stand. The amount of money you have is beside it. Draw a picture of the money you receive as change.


29¢
50¢
$1.16
$5
14¢
25¢
53¢
50¢
25¢
$5.98
$10
$1.02
$1
25¢
12¢
10¢
10¢
98¢
$1
$7.55
$10
$3.22
$5
35¢
50¢
18¢
10¢
10¢
1¢
5¢
79¢
$1
$2.25
$5

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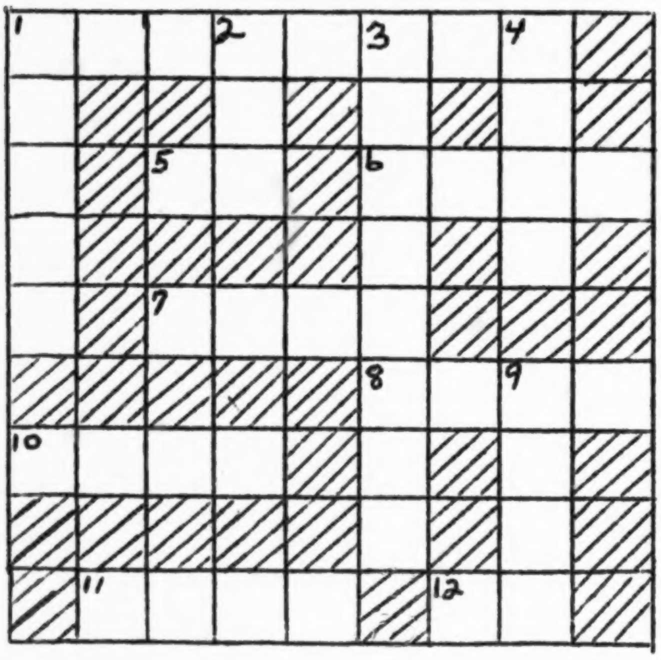
S4 - A - 17

Write your answers on another piece of paper.

ARITHMETIC


1
2
3
4
5
6
7
8
9
10
11
12

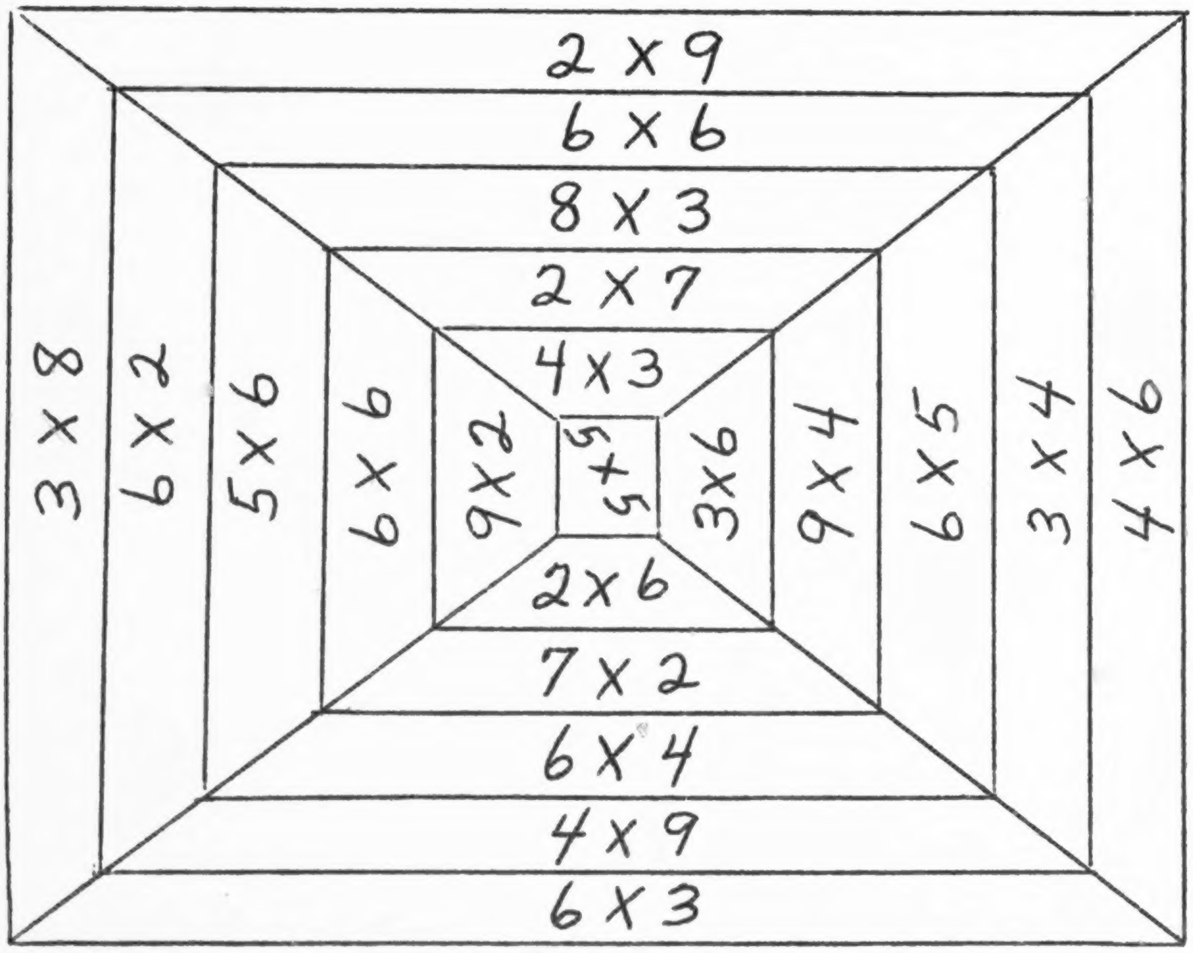
Across

1. The minus sign means to ____.
5. Abbreviation for inch
6. Coin with value of 10¢
7. 12 inches equal one ______.
8. The unit of measurement you would use in measuring a crayon
10. 3 feet equal one _______.
11. Two nickels equal one ________.
12. Abbreviation for foot

Down

1. Three plus four equals ________.
2. Five times two equals _________.
3. The sign + means ________.
4. Clocks tell ________.
9. The coin of least value is called a ______.

Color the sections according to the correct answers.


2 x 9
6 x 6
8 x 3
2 x 7
4 x 3
3 x 8
6 x 2
5 x 6
6 x 6
9 x 2
5 + 5
3 x 6
9 x 4
6 x 5
3 x 4
4 x 6
2 x 6
7 x 2
6 x 4
4 x 9
6 x 3

12	yellow
30	violet
24	red
25	black
36	green
18	orange
14	blue

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S4 - A - 18

PAIRS

Can you pair the following numbers so that each number in column A, when added to the number in column B, will give the same total? Write your answers on another piece of paper.

6 7 8 9 10 11 12 13 14 15 16 17

A B

1. + =
2. + =
3. + =
4. + =
5 + =
6 + =

These ten scrambled words are all units of measure. Unscramble them and write them correctly in the row of boxes. When you finish, the letters in the shaded squares will spell a word.

LAGLON		▨				
SORGS		▨				
TINP		▨				
NOT	▨					
THOMN					▨	
LIME	▨					
KECP		▨				
TOOF				▨		
CHIN	▨					
COUNE				▨		

The word they spell is ____________________.

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ARITHMETIC RIDDLES

Write your answers on another piece of paper.

1. I am 1/4 of a gallon or 2 times a pint. What am I?

2. I am 1/2 as heavy as a pound. How many ounces do I weigh?

3. I am 36 times an inch or 3 times a foot. What am I?

4. There are usually 365 like me in a year. What am I?

5. I am 2640 feet long. What would I be if I were twice as long?

6. I am 1/3 yard long or 12 times an inch. What am I?

7. If you pour me into a quart milk bottle, the bottle will be 1/2 full. What am I?

8. I am 7 times 24 hours. What am I?

9. If you pour me into a bushel basket, the basket will be 1/4 full. What am I?

10. I am the month that follows January. What month am I?

11. I am half of a pint or one fourth of a quart. What am I?

12. I am 1/2 of a foot or 1/6 of a yard. What am I?

13. I am seven less than twice the sum of twenty-two and sixty-nine. What am I?

14. I am nine more than three times eight minus five. What am I?

15. I am twelve less than the sum of forty-eight and thirty-three. What am I?

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PRIME NUMBERS

Write your answers on another piece of paper.

Prime numbers are any counting number except 1 which are divisible only by 1 and itself. Find all the prime numbers from 2 to 100. The first three numbers are: 2, 3, 5,

Greater and Lesser

$<$ is a symbol meaning less than

$>$ is a symbol meaning greater than

1. Write a number that is > 16 and < 18.
2. Write a number that is < 8 and > 2.
3. Write a number that is < 25 and > 20.
4. Write a number that is < 5 and > 4.
5. $5 + \square = < 8$
6. $10 + \square = > 16$
7. $18 - \square = > 10$ but < 12
8. $7 \times \square = < 29$ but > 27
9. $54 \div \square = > 3$ but < 10
10. $8 \times \square = < 36$ but > 20

S4 - A - 21

A DESERT MEETING

One summer afternoon, two cars crossing the desert met on a highway. Car A was going 65 miles an hour. Car B was going 40 miles an hour. When the two cars met Car A had gone 29 of the 64 miles from Carter to Gold Camp.

Gold Camp has 1,846 people and Carter has 1,391 people. Beside the highway are two mountains--Deadman's Peak, which is 2,287 ft. high, and Cone Point, which is 3,172 ft. high.

The cars met on the desert at a place which was only 452 ft. above sea level. The temperature on the desert that day was 104 degrees. Car B had an air conditioner which kept its temperature at 75 degrees.

The story above gives you the information to answer some of the questions which follow. Be careful! Maybe some questions will not have answers.

1. Car A was going how many miles an hour faster than Car B? ________

2. Car A must travel how many more miles to reach Gold Camp? ________

3. What is the difference between the heights of Cone Peak and Deadman's Peak? ________

4. How many fewer people are there in Carter than in Gold Camp? ________

5. Cone Point is how many feet higher than the desert? ________

6. Car B was kept how many degrees cooler than out on the desert? ________

7. How much cooler was Car B than Car A? ________________________

8. How long will it take Car A to reach Gold Camp? ____________

9. How much hotter was Carter than Gold Camp? ________________________

10. Gold Camp is how many feet higher than the place where the cars met? ________

11. The desert is how many feet below the top of Deadman's Peak? ____________

12. When the two cars met on the desert, which car was nearer its destination?

    ____

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S4 - A - 22

ARITHMETIC TRICKS

Write your answers on another piece of paper.

1.
   a. Take any number you wish (12 for example)
   b. Multiply it by 5
   c. Add 6 to the product
   d. Multiply this sum by 4
   e. Add 9 to this product
   f. Multiply this sum by 5
   g. Cross off the last two numbers
   h. Subtract 1 from what is left?

   What is your answer?

2. Get someone to multiply his age by 3, add 6 to the answer, and then divide by 3. Ask for the answer. By subtracting 2 from that number, you will get his age.

3.
   a. Take any number you wish (11 for example)
   b. Multiply the number by 6
   c. Add 12 to this product
   d. Divide this number by 3
   e. Subtract 2 from the quotient
   f. Divide the difference by 2
   g. Subtract the original number
   h. Add 9 to this remainder.

   What is your answer?

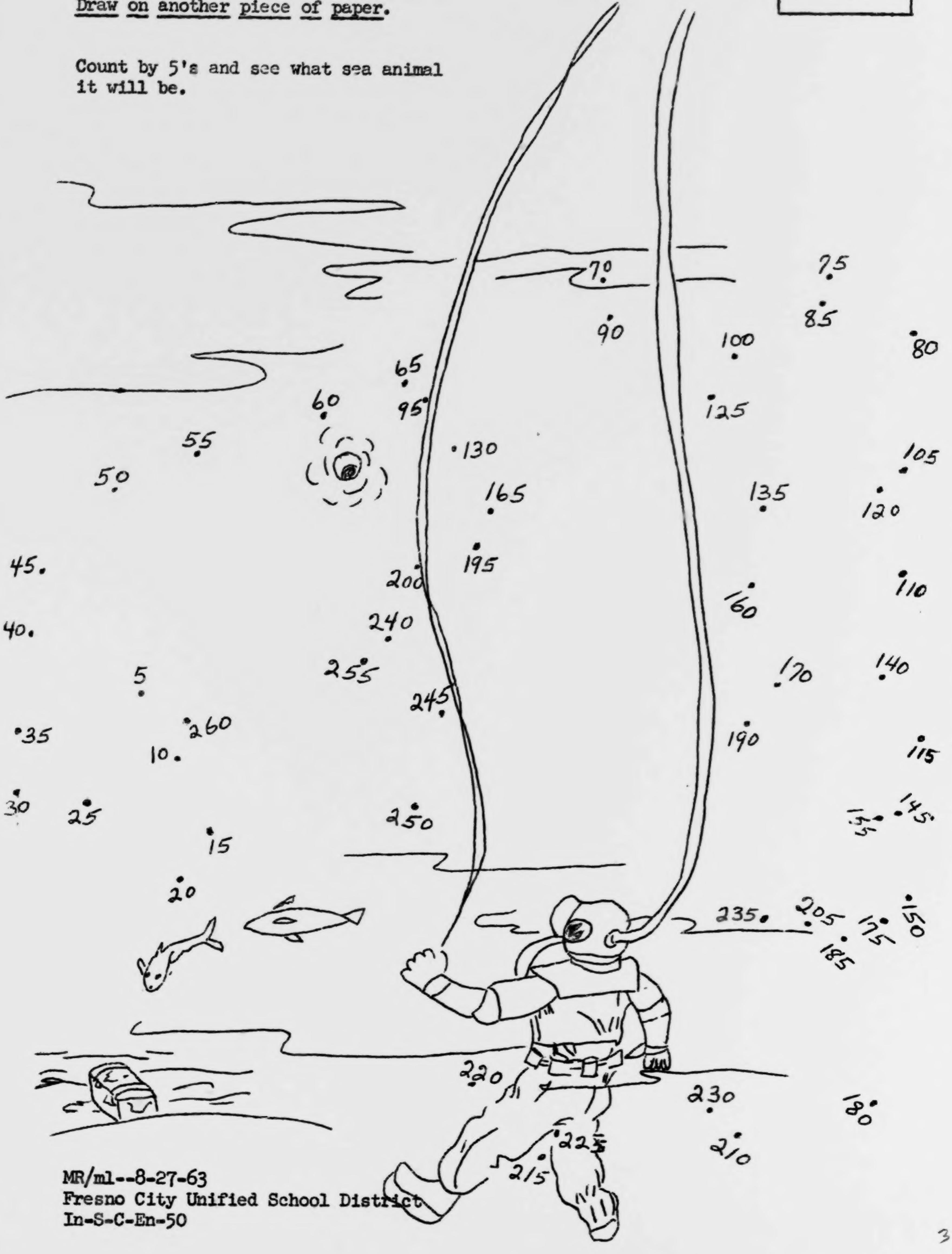
4.
   a. Start with any number, such as 23
   b. Add the next larger number
   c. Then add 9 to this sum
   d. Divide the sum by 2
   e. Now subtract the original number.

   What is your answer?

S4 - A - 23

Draw on another piece of paper.

Count by 5's and see what sea animal it will be.



70
75
85
90
100
80
65
60
95
125
55
50
130
105
165
135
120
45.
200
195
160
110
40.
240
5
255
170
140
245
35
260
10.
190
115
30
25
250
155
145
15
20
235.
205
175
150
185
220
230
180
225
210
215

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TREASURE HUNT

You have to put the words in alphabetical order to find out what they say. The one who puts the words in alphabetical order first will find the treasure first.

Write your answer on another piece of paper.

gate basket from treasure a bush east directly feet holds garden real beside secret eight

BE A SQUARE

What's a word square? Just a group of words arranged so that they read the same across and down. There are three words in this square. Notice that you can read each word from top to bottom and from left to right.

Write your answers on another piece of paper.

SIT
ICE
TEN

Now try these:

___ ___ ___ 1. What you have when you enjoy yourself
___ ___ ___ 2. Employ or make use of
___ ___ ___ 3. Opposite of old

___ ___ ___ 1. Opposite of good
___ ___ ___ 2. A monkey
___ ___ ___ 3. Home of the lion

___ ___ ___ 1. 2000 pounds
___ ___ ___ 2. Half of two
___ ___ ___ 3. This separates two tennis players

___ ___ ___ ___ 1. Opposite of fast
___ ___ ___ ___ 2. What every mother feels for her child
___ ___ ___ ___ 3. Place for baking
___ ___ ___ ___ 4. Past tense of go

___ ___ ___ ___ 1. Opposite of go
___ ___ ___ ___ 2. The ____ measure is used to determine size.
___ ___ ___ ___ 3. Opposite of close
___ ___ ___ ___ 4. You write with these

1. ___ ___ E A monkey
2. ___ E ___ You write with this
3. E ___ ___ Finish

1. W ___ ___ Was the winner
2. ___ W ___ Be behind in payment
3. ___ ___ W Not old

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7-25-62
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GUILLOTINE

Here's a game where you chop off heads! Not people's heads -- a guillotine does that. Your pencil is your guillotine. Chop off the first letter of each word to make a new word.

Write your answers on another piece of paper.

For example:

Blame	becomes	lame
Cheat	becomes	heat

1. Chop the head off what you sweep with to get part of a house.

   ___ ___ ___ ___ ___ becomes ___ ___ ___ ___

2. Chop the head off a piece of furniture you sit on to get what a bald man has little of.

   ___ ___ ___ ___ ___ becomes ___ ___ ___ ___

3. Chop the head off this time-piece to get what you open with a key.

   ___ ___ ___ ___ ___ becomes ___ ___ ___ ___

4. Chop the head off this sign of happiness to get a distance 5280.

   ___ ___ ___ ___ ___ becomes ___ ___ ___ ___

5. Chop the head off the place where horses are kept to get a piece of furniture on which food is served.

   ___ ___ ___ ___ ___ ___ becomes ___ ___ ___ ___ ___

WORD LADDERS

See how well you can climb up and down these word ladders with the help of the clues given to you for each word.

Write your answers on another piece of paper.

1.	A R ___ ___ ___	What a knight protects himself with
2.	___ A R ___ ___	Third month of the year
3.	___ ___ ___ A R	A white bear is a _______ bear.
4.	___ ___ ___ E L	Important metal made from iron
5.	___ ___ E L ___	What you find at the seashore
6.	___ E L ___ ___	Opposite of above
7.	E L ___ ___ ___	Part of your arm
8.	___ ___ ___ ___ O N	Country
9.	___ ___ ___ O N ___	Opposite of weak
10.	___ ___ O N ___ ___	This soaks up water
11.	___ O N ___ ___ ___	The second day of the week
12.	O N ___ ___ ___ ___	In a forward direction
13.	T E ___ ___ ___ ___	An Indian tent
14.	___ T E ___ ___ ___	Robs
15.	___ ___ T E ___ ___	Be present
16.	___ ___ ___ T E ___	Hear attentively
17.	___ ___ ___ ___ T E	Buccaneer

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CODE:

You can figure out the message by writing b for a, c for b, d for c, and so on. You must write a for z. The first two words are Can you.

Write your message on another piece of paper.

Bzm xnt ldds ld zs Lxrsdqx

Bzud zesdq rbgnnk zants gzke

ozrs entq. H sghmj hs vntkc

ad etm sn dwoknqd sgd bzud.

Cn mns kds xntq rhrsdq Idzm

fds gnkc ne sghr ldrrzfd. Rgd

lhfgs ehftqd nts ntq mdv bncd.

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LANGUAGE

Write your answers on another piece of paper.

Seeing a picture in a poem.

"A Modern Dragon"

A train is a dragon that roars through the dark.
He wiggles his tail as he sends up a spark.
He pierces the night with his one yellow eye
And all the earth trembles as he rushes by.

by Rowena Bennett

Does this poem make you hear and see the train? ____ (yes or no)

Write the word that makes you

1. hear the train __________
2. see how he moves his tail __________
3. see the color of his eye __________

To make you see a picture, the poet gives each part of the train a different name. Write in the different name.

4. She calls the train a __________
5. She calls the line of cars his __________
6. She calls the headlights an __________

Parts of the poem These two words (period -- capital) can be used in the answers below.

7. With what kind of letter does every line of the poem begin? __________
8. What kind of punctuation is used in this poem? __________
9. Is every line ended with some kind of punctuation? ________ (yes or no)
10. Does every last word in this poem rhyme? ______ (yes or no)
11. Do two lines rhyme? _____ (yes or no)
12. Which words rhyme? ______, ______ and ______ with ______
13. Can all of the last words in a poem rhyme? _____ (yes or no)
14. Do the last words in a poem have to rhyme at all? ______ (yes or no)
15. This poem has ________ lines.
16. Does every poem have to have four lines? ______ (yes or no)

CODE

A-1 B-2 C-3 D-4 E-5 F-6 G-7
H-8 I-9 J-10 K-11 L-12 M-13 N-14
O-15 P-16 Q-17 R-18 S-19 T-20 U-21
V-22 W-23 X-24 Y-25 Z-26

Write your message on another piece of paper.

Message:

15-14-3-5 21-16-15-14 1 20-9-13-5

________ __________ _ ________

20-8-5-18-5 23-5-18-5 20-8-18-5-5

__________ ________ __________

2-5-1-18-19. 1 16-1-16-1 2-5-1-18

__________. _ ________ _______

1 13-1-13-1 2-5-1-18 1-14-4 1

_ ________ ________ _____ _

23-5-5 23-5-5 2-1-2-25 2-5-1-18.

_____ _____ _______ _______.

HELP JACK WRITE THIS LETTER!

Choose the correct spelling from the list at the bottom.

Write your answers on another piece of paper.

Dear Uncle John,

We just arrived home from a trip out west. We saw all kinds of (1) __________ and the (2) __________ was good most of the time. We drove (3) __________ the (4) __________ and in the (5) __________.

At the Grand (6) __________ I rode a (7) __________. We had a (8) __________ who took us down a (9) __________ (10) __________.

We brought home a lot of (11) __________ things. I like my (12) __________ (13) __________ the best.

Your (14) __________,

Jack

Use your dictionary to help you solve your spelling problems.

1. senery, scenry, scenery
2. whether, weather, wether
3. through, threw, thorough
4. dessert, dezert, desert
5. mountians, mountans, mountains
6. Canyon, cannon, Kanion
7. burrow, burro, buro
8. gide, giude, guide
9. stepe, steap, steep
10. trial, trail, trale
11. intresting, interesting, intristing
12. Indain, Indian, Indyan
13. Moccassins, mocassins, moccasins
14. nefew, nephiew, nephew

Carefully read the following headlines. Can you find sixteen words misspelled?

Write the words on another piece of paper.
Spell each word correctly.

Munkey escapes zou caje
Climes cherch chimeny

Gote runs wilde
Feests on puppil's shert

Starm hits twin citys
Satiday game calld off

1. ________________
2. ________________
3. ________________
4. ________________
5. ________________
6. ________________
7. ________________
8. ________________
9. ________________
10. ________________
11. ________________
12. ________________
13. ________________
14. ________________
15. ________________
16. ________________

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7-26-62
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All the words in the boxes are compound words but they have been put together wrong. See if you can straighten them out.

Write the correct words on another piece of paper. Learn to spell compound words part by part.

birthground
downbody
everystairs
forday
playgot

cowbow
themwalk
rainboy
bedselves
sideroom

airroad
breakshine
sunpoint
ballfast
railplane

1. ____________________
2. ____________________
3. ____________________
4. ____________________
5. ____________________
6. ____________________
7. ____________________
8. ____________________
9. ____________________
10. ____________________
11. ____________________
12. ____________________
13. ____________________
14. ____________________
15. ____________________

Dear Aunt Helen,

It seams sew long since we have herd from you. We new that you had a bad fall on the stares. Did you receive the get well card I cent you? I rote it with my new Paper Mate.

Last weak Dad and I entered hour sale-boat in the spring meat. The whether was fare. The see was calm. The wind blue just write, to. You will be happy to no that we one the race.

We hope to here from you soon.

With love,
Tom

Read Tom's letter. You can see that he has trouble spelling homonyms. Homonyms sound alike but they have different spellings and meanings.

Find the spelling errors in Tom's letter. On another piece of paper write each homonym correctly.

1. ____________________
2. ____________________
3. ____________________
4. ____________________
5. ____________________
6. ____________________
7. ____________________
8. ____________________
9. ____________________
10. ____________________
11. ____________________
12. ____________________
13. ____________________
14. ____________________
15. ____________________
16. ____________________
17. ____________________
18. ____________________
19. ____________________
20. ____________________

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7-26-62
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To save time and space, we often abbreviate certain words. An abbreviation is a shortened form of a word.

Look at these abbreviations. Beside each one write the word for which the abbreviation stands. Remember to capitalize the names of the months and the days.

Three of the months have no abbreviations. Write their names on the last three lines. Write your answers on another piece of paper.

Oct. ______________________

Sun. ______________________

Dec. ______________________

Sat. ______________________

Mar. ______________________

Nov. ______________________

Thurs. ______________________

Sept. ______________________

Apr. ______________________

Mon. ______________________

Feb. ______________________

Aug. ______________________

Tues. ______________________

Fri. ______________________

Jan. ______________________

Wed. ______________________

____

____

____

Carl's father asked him to list the subjects he studied in school. Carl listed them with his favorite subject first, and so on.

Find Carl's spelling errors. Write the words correctly on another piece of paper.

recees
jym
scinse
liberry
reeding

writting
arte
arrithmetik
helth
histry

languidje
Frensh
jogerfe
mussik
speeling

1. ____________________
2. ____________________
3. ____________________
4. ____________________
5. ____________________
6. ____________________
7. ____________________
8. ____________________
9. ____________________
10. ____________________
11. ____________________
12. ____________________
13. ____________________
14. ____________________
15. ____________________

Carol wrote a story. Just to be funny she left out the silent letters in twenty of the words. See if you can find the twenty words. On another piece of paper write each word correctly.

Late one nit when I was haf aslep, I heard a nock on the door. Tho I thot I was dreaming as I ofen do, I sat up in bed to lisen. It was then that I heard somone cal my name.

"Al rite," I answered as I climed out of bed.

Fritened as I was, I ran strat to the door. And ges who was standing there in the brite moon lite .... a gost!

Do you belev that?

1. ________________
2. ________________
3. ________________
4. ________________
5. ________________
6. ________________
7. ________________
8. ________________
9. ________________
10. ________________
11. ________________
12. ________________
13. ________________
14. ________________
15. ________________
16. ________________
17. ________________
18. ________________
19. ________________
20. ________________

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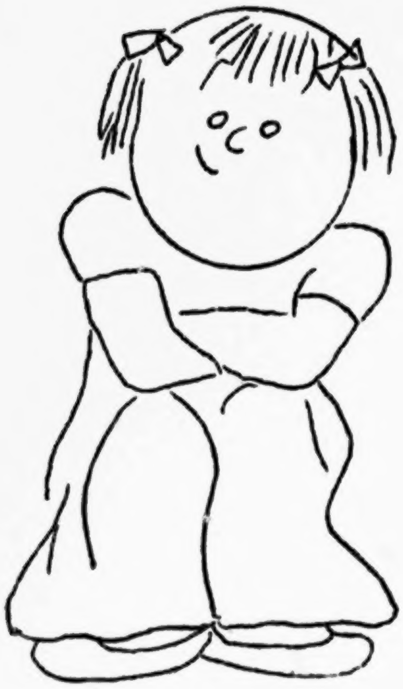
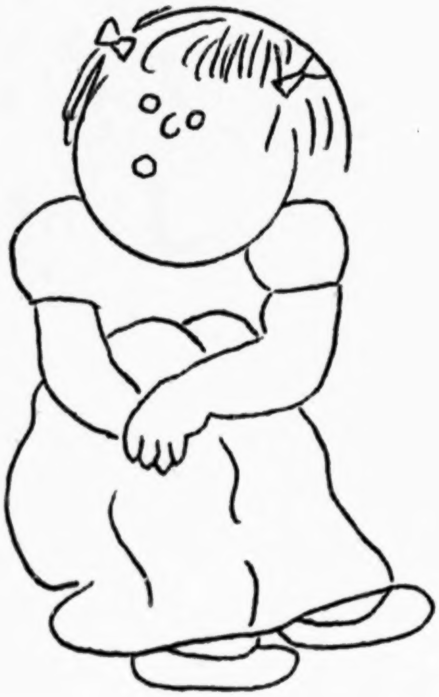
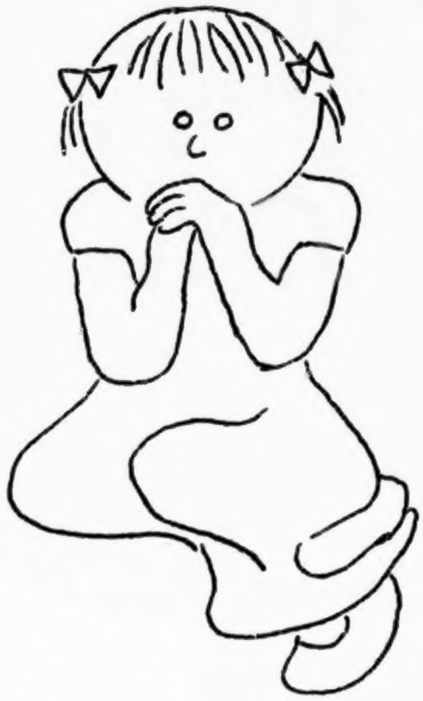
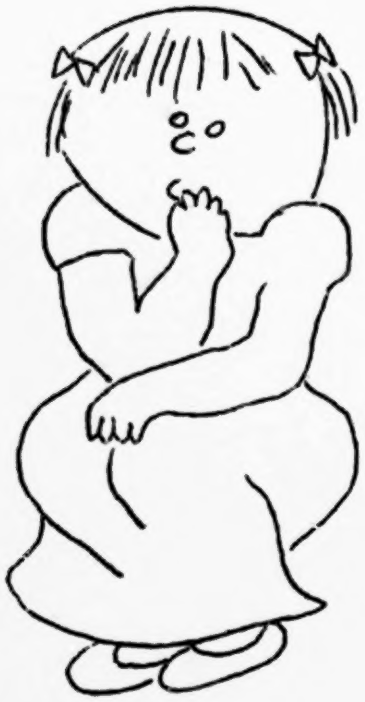
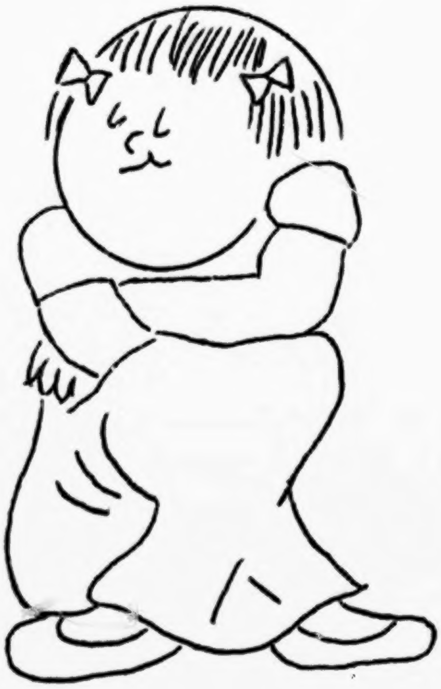
Write Me A Story

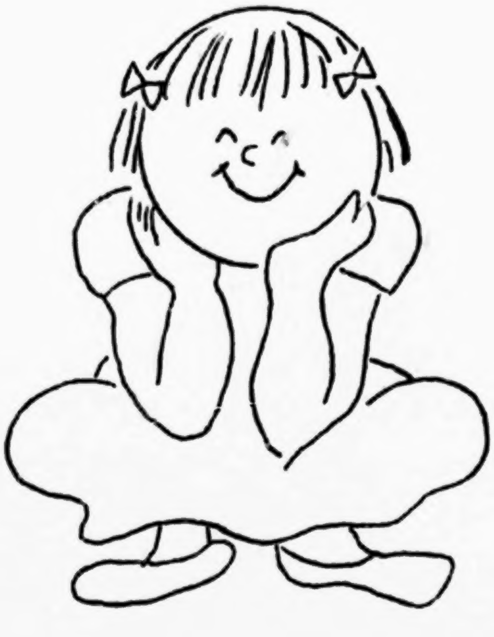












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In4-S-C-En-13

S4 - LA - 16

WRITING POETRY

Write your answers on another piece of paper.

"At the Seashore"

When I was down beside the sea
A wooden spade they gave to me
To dig the sandy shore.
My holes were empty like a cup
In every hole the sea came up,
Till it could come no more.

--by Robert Louis Stevenson

1. With what kind of letter does every line of the poem begin? ______________
2. Does every line of this poem start below each other? _________(yes or no)
3. Is every line ended with some kind of punctuation? _________(yes or no)
4. Does every line in this poem rhyme? _________ (yes or no)
5. Which words rhyme? _____________ with _____________
   _____________ with _____________
   _____________ with _____________
6. What kind of spade did the child use? _________________
7. Does the word with spade help you see what is happening?_____(yes or no)
8. The holes were empty like a ____________. Does that help you see the holes? ________ (yes or no)

Write a poem of your own about the sea. You will need six lines. The last word of the lines can all rhyme, two lines can rhyme, or no lines need to rhyme.

____

____

____

____

____

____

____

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COLORFUL WORDS

Select the words in the story below that help you to get mental pictures. Write the answers on another piece of paper.

One night, I heard a strange sound outside my window. At first, I sat as quiet as a mouse. Then, I decided to be as brave as a lion and see what was causing the noise. The moon looked like a big yellow balloon that shone on a moving figure jumping like a bucking bronco. I laughed when I discovered it was my dog. He was covered with a blanket that he had pulled off the clothesline.

Many words help to give a mental picture when you compare things. Example: as sly as a fox. Finish the phrases with appropriate words.

1. as hard as a ______________________
2. as busy as a ______________________
3. as meek as a ______________________
4. as red as a ______________________
5. as hungry as a ____________________
6. as blue as the ____________________
7. as slow as a ______________________
8. as swift as ______________________
9. as cross as a _____________________
10. as sly as a ______________________

S4 - LA - 18

AESY ELINGSH

Rearrange the letters to spell a word. Look at the bottom of the page if you need help. Write the answers on another piece of paper.

1. palatic ______________________
2. Lsghein ______________________
3. dowsr ______________________
4. mamoc ______________________
5. nesceetn ______________________
6. intesoug ______________________
7. anemtetst ______________________
8. diproe ______________________
9. hlbaptea ______________________
10. tselret ______________________

1. We use it at the beginning of a sentence.
2. This book helps us learn _______________.
3. We use these in sentences.
4. It separates words in sentences.
5. It tells a whole thought.
6. It asks something.
7. It tells something.
8. We put this at the end of a sentence.
9. There are 26 letters in it.
10. Parts of words are called _____________.

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S4 - LA - 19

LANGUAGE

(Writing Our Own Poem)

Write the last word for this rhyme and give it a title. Write your answers on another piece of paper.

____

Our school will soon be over,
For this is the month of May,
Amid the flowers and clover
We'll run and jump and ________.

1. Was a comma used in this poem? ___________ (yes or no)
2. Fill the blanks with rhyming words from this list.

   wag cake gay patch shake pray match rag

   a. bay ___________ ___________ tag ___________ ___________

   b. rake ___________ ___________ catch ___________ ___________
3. Here are describing words that make you feel:

   icy fuzzy smooth rough prickly

   In each sentence below, write one of these words to show how something feels.

   a. In winter an ___________ wind blows over our faces.

   b. A peach has a ___________ skin.

   c. Velvet is ___________.

   d. A brick is ___________.

   e. A ___________ burr stuck to my coat.
4. Now write a rhyme of your own. All you need to have is four lines. The last word of the lines can all rhyme, two lines can rhyme, or no lines can rhyme.

____

____

____

____

____

S4 - LA - 20

LANGUAGE

Look at the word above each sentence. Then, read the sentence and write a word in the empty space that fits the meaning. The word must either begin or end like the word above the sentence.

hard

1. The girl was eager to learn how to play the beautiful golden ____________________.

saw

2. After Patty's teeth were filled, her _______________ stopped aching.

main

3. On my birthday the postman brought me lots of ____________.

faster

4. The dog scrambled aboard the rowboat after his ____________.

shook

5. On hot days the cattle often go to the _______________ to drink.

twice

6. George's father paid a high _____________ for his son's bike.

stump

7. Walking with a heavy object on your head is not an easy ________________.

dollar

8. Grandfather's beard was so long that it hid his __________.

hitch

9. Men were digging a ____________ beside the road to carry off water.

shop

10. When the weather is chilly, farmers do not have a good corn ___________________.

hut

11. The _____________of the bees became louder as we drew near the hive.

pillow

12. The fisherman sat down under a _________________ tree.

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8-28-63
In4-S-C-En-13

S4 - LA - 21

SINGULAR - PLURAL WORDS

Singular means one, plural more than one.

Draw your puzzle on another piece of paper.

1 A				B	☒	2 C					☒
	☒	☒	☒		☒		☒	☒	☒	☒	☒
	☒	☒	☒		☒	4					E
3			D		☒		☒	☒	☒	☒	
	☒	☒		☒	☒	6					
	☒	☒		☒	☒		☒	☒	☒	☒	
5						☒	☒	☒	☒	☒	
	☒	☒		☒	☒	☒	7				

In the correct blocks, write the singular form of all plural words printed below. Write the plural form of the singular words in the following lists.

Across		Down	
1.	star	A.	sentences
2.	watches	B.	socks
3.	trucks	C.	wolf
4.	lady	D.	churns
5.	cherries	E.	sisters
6.	echo		
7.	rulers		

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In4-S-C-En-13

BLANK PAGE

JANUARY

Fill in the blanks for some news about January. After each blank is a World Book Encyclopedia clue, such as (J-28). This means to look in Volume J, on page 28. These clues will help you find your answer. Write your answers on another piece of paper.

1. What people hold a great river bathing festival in about the middle of January? ____________________ J-28

2. For whom is January named? ____________________ J-28

3. What people once celebrated the new year in about the middle of June? ____________________ N-237

4. What is another name for "Twelfth Night" or "Little Christmas"?

   ____________________ J-28

5. What thing, a part of the house, did English people once clean on New Year's Day for good luck?

   ____________________ N-237

6. In another English custom, what did wives once receive on New Year's Day for buying pins? ____________________ N-237

7. A famous city, Rio de Janeiro, has the same name as its bay. What does "Janeiro" mean in English? ____________________ R-322

8. What embroidered and jeweled New Year's gifts did Queen Elizabeth I add to a collection? ____________________ N-237

9. In what country does the new year begin on March 21? __________ N-237

MR/sam
7/24/62
In4-S-C-En-47

We never guess.
We look it up!

FEBRUARY

Can you fill in the proper numbers in the blanks? Check your answers with F-65. Write the poem and answers to the questions on another piece of paper.

_____ days hath September,
April, June, and November;
All the rest have _____.
Excepting February alone
Which hath but _____, in fine,
Till Leap Year gives it _____.

WHO AM I?

1. My real name is ______________________________. W-328

2. On February _____, I am supposed to come out of my burrow. W-328

3. If I see my shadow, I ____ ________________. G-393-4

4. If I don't see my shadow, I ____. G-393-4

5. Do you think beliefs about me are true? ______________. W-328-9

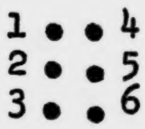
6. Draw a picture of me in the frame above.

7. Name five other animals that sleep all winter. B______________ S____________ S____________ F______________ C ________________ H-207

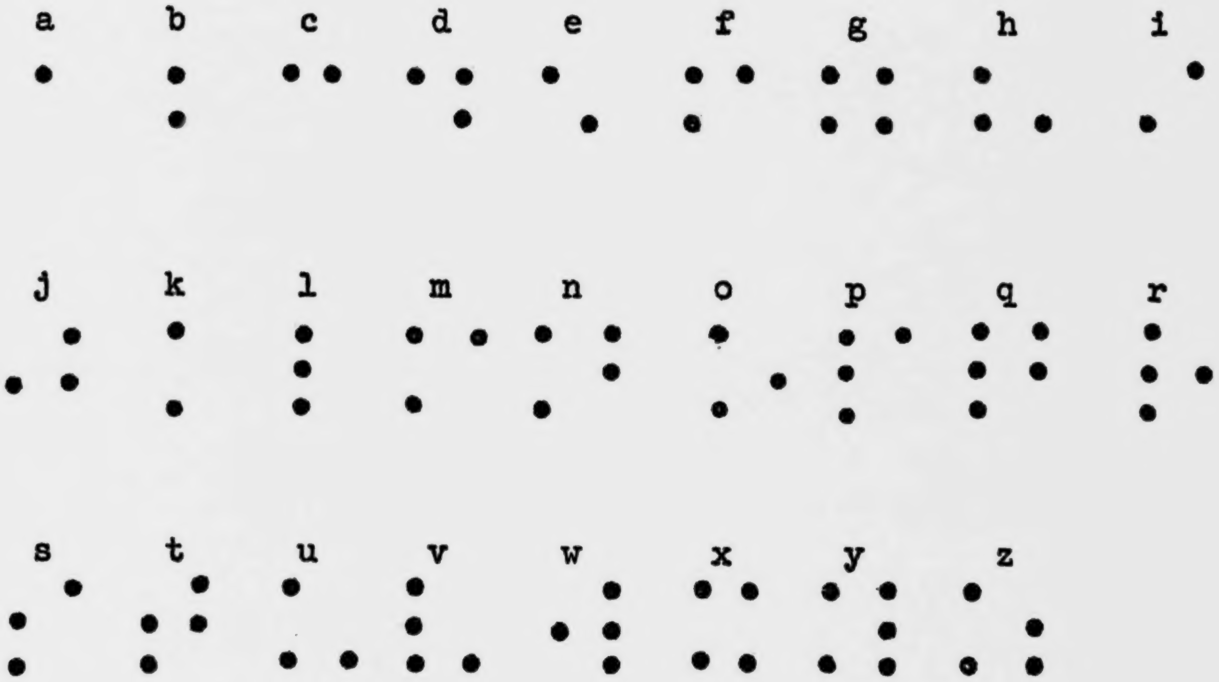
8. This long sleep is called ___________________________. H-207

THE BRAILLE ALPHABET

Cell



Below is a system of reading and writing that blind people use. See if you can learn this alphabet and write messages by using it. Do you know who started this system of reading and writing. Write a message using the Braille Alphabet.


a
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z

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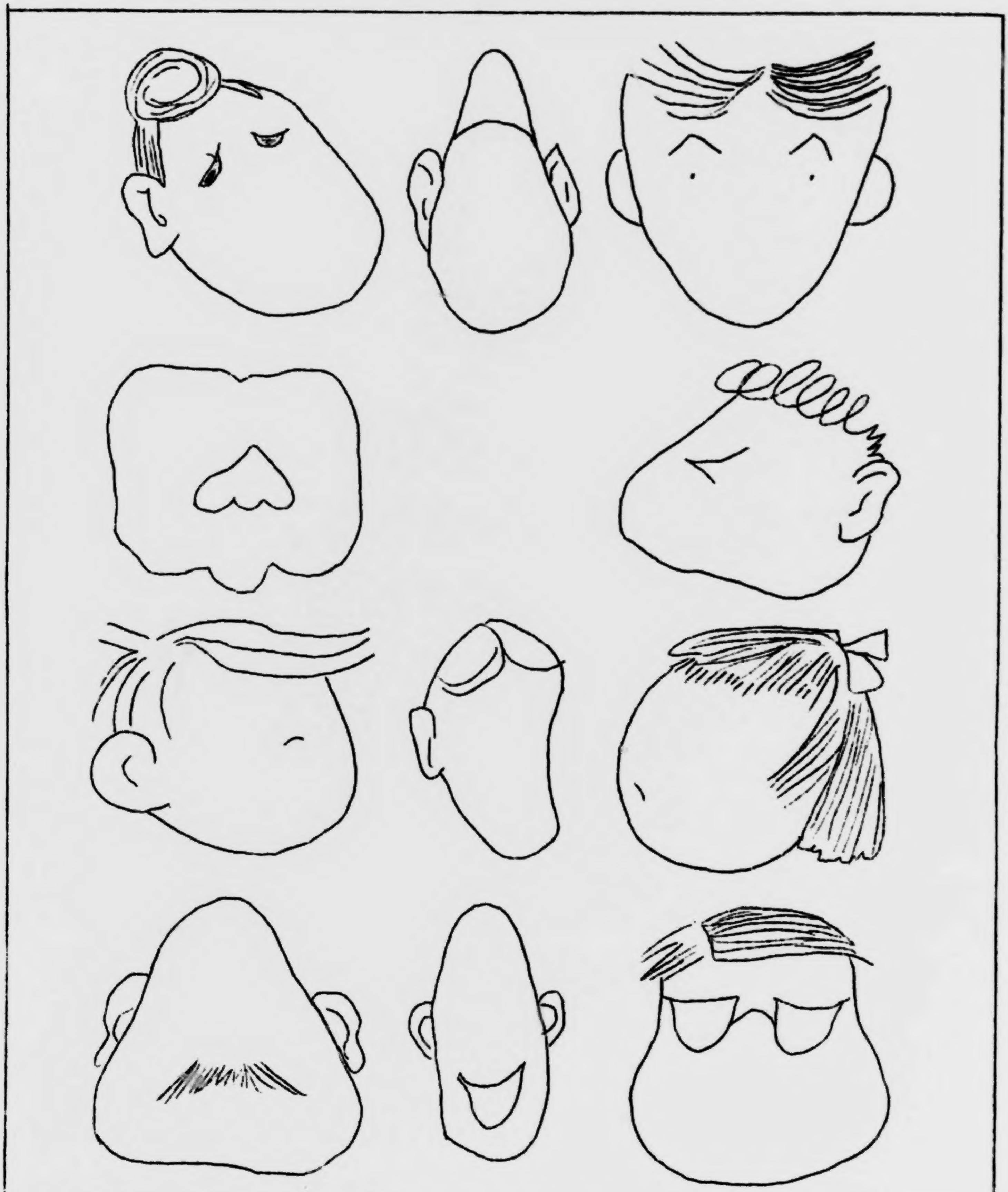
FINISH THE FACES

How good an artist are you? On another piece of paper draw a cartoon using one or more of these faces. Write a caption for it.



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THE ALPHABET GAME

This is fun from "A to Z." For each letter of the alphabet, you need three words. Here's your first one: My name is Adam, I'm from Alabama, I sell Apples.

My Name is	I'm From	I Sell
B ____________	B ____________	B ____________
C ____________	C ____________	C ____________
D ____________	D ____________	D ____________
E ____________	E ____________	E ____________
F ____________	F ____________	F ____________
G ____________	G ____________	G ____________
H ____________	H ____________	H ____________
I ____________	I ____________	I ____________
J ____________	J ____________	J ____________
K ____________	K ____________	K ____________
L ____________	L ____________	L ____________
M ____________	M ____________	M ____________
N ____________	N ____________	N ____________
O ____________	O ____________	O ____________
P ____________	P ____________	P ____________
Q ____________	Q ____________	Q ____________
R ____________	R ____________	R ____________
S ____________	S ____________	S ____________
T ____________	T ____________	T ____________
U ____________	U ____________	U ____________
V ____________	V ____________	V ____________
W ____________	W ____________	W ____________
X ____________	X ____________	X ____________
Y ____________	Y ____________	Y ____________
Z ____________	Z ____________	Z ____________

RESEARCH CATEGORY:	Ency.	Vol.	Page
QUESTION:			
ANSWER AND ADDITIONAL RESEARCH:	ILLUSTRATION		

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S - M - 7

HOBBIES

Do you have a hobby? Most of us have a hobby of some kind or other. Maybe yours is collecting things, building things or doing special things. If you do have a special hobby maybe this paper might help you to do your hobby better. Try it and see if it helps you.

Answer the questions below as best you can: Write your answers on another piece of paper.

1. What is your hobby? ______________________________

2. How long have you had this hobby? ______________________________

3. How did you get started on this hobby? ______________________________
____

4. Does anyone help you with your hobby? ______________________________

5. Have you read any books about your hobby? ______________________________

6. Where might you find more information about your hobby? ____________
____

7. Do you know of any famous person who has the same hobby as you do? Name them.
____

8. Things to do:

   a. Go to the library and find several books to read about your hobby.

   b. Ask someone who has the same hobby as yours for more information.

   c. Try to find as many people as possible who have the same hobby as yours and discuss your hobbies together.

   d. Make a scrapbook about your hobby.

   e. Visit a museum and look at a collection or hobby similar to yours.

   f. Write a letter to someone for information about your hobby.

   g. See if you can find out if any famous person has had the same hobby.

   h. Bring your hobby to school and share it with your classmates. Prepare a short talk about your hobby. If necessary make charts or posters to help explain it.

When you have completed as many of the things suggested above as possible you should have learned a great deal more about your hobby and possibly you may have interested someone new in your hobby.

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In4-S-C-En-47

BLANK PAGE

Fresno City Unified School District
-- --

R - 1

Hi! Ho! On to Pronunciations We Go -- What's the Joke?

Write the story correctly on another piece of paper.

"Lu̇k hēr, Bob," kəmplānd′ ə man tü hiz nā′bər wun môr′ning, "ūv got tü māk ūr dôg stop chās′ing ôl ŦHə spôrts kärz ŦHat driv doun our strēt."

"Wel ī kant dü much əbout′ ŦHat," an′sərd Ŧhə man. "Mōst dôgz chās kärz."

"Yes ī nō—but ūr dôg kach′əz ŦHəm ənd ber′iz ŦHəm i mī bak yärd."

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Write this poem on another piece of paper

hwĕn dĭd ŦHə wŭrld bĭ·gĭn

"hwĕn dĭd ŦHə wurld bĭ·gĭn′?"
Ī ăskt ə lăm, ə gōt, ə kow:

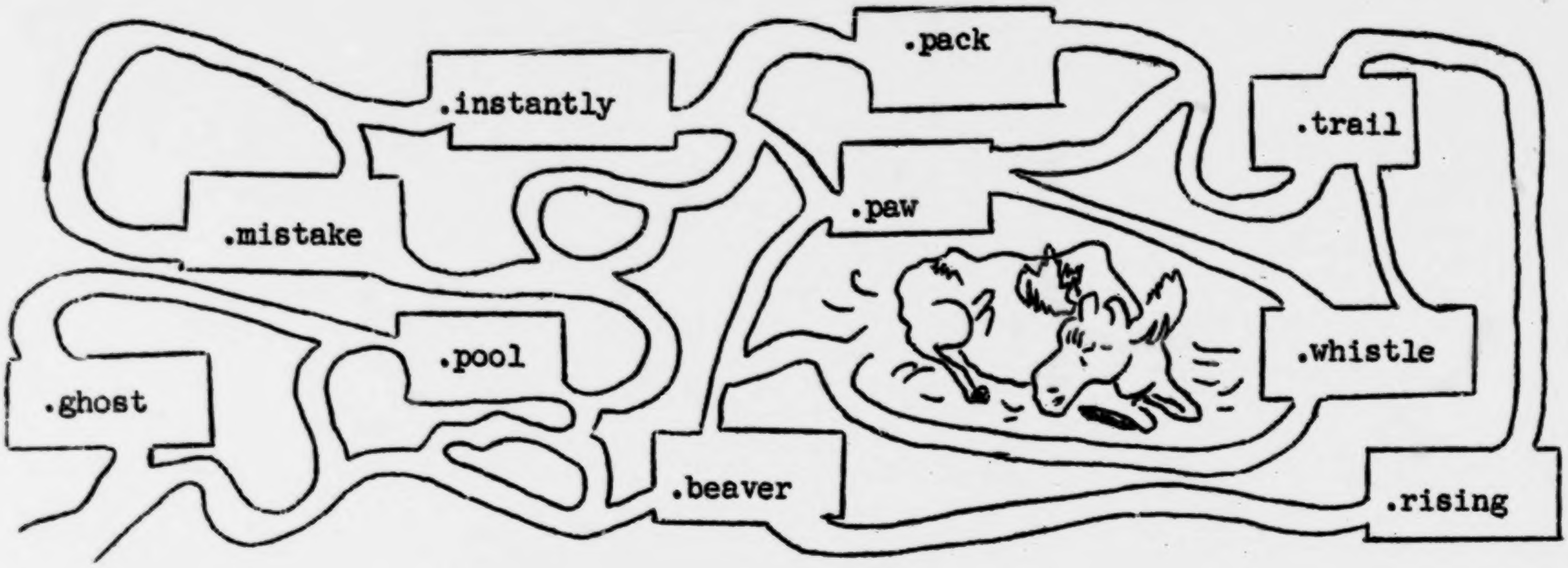
"hwäts ĭt ôl ə·bout′ ănd hwī?"
Ī ăskt ə hôg ăz hē wôkt bī:

"hwār wĭl TH hōl thĭng ĕnd ănd hwĕn?"
Ī ăskt ə dŭk, ə go͞os, ə hĕn:

and Ī kŏp·ĭd ôl THə ăn·′sẽrs, to͞o,
ə kwăk, ə honk, ăn oink, ə mo͞o.

rob·′ẽrt klâr·′mŏnt′

ON THE TRAIL OF THE MOOSE



The trail of the moose begins at the bottom left hand corner of this picture puzzle. Use the clues below to follow the trail of the moose from word to word. Join the points with a pencil line to find the sleeping moose.

CLUES

1. Find the word that has the long o.

____

2. Find the word that has twin vowels next to each other.

____

3. Find the two-syllable word that has a long a.

____

4. Find the word that has three syllables.

____

5. Find the word that rhymes with Jack.

____

6. Find the word that means path.

____

7. Find the word that has a long i and a short i.

____

8. Find the two-syllable word with two different vowels that come together.

____

9. Find the word that rhymes with saw.

____

10. Find the word that has a silent t.

____

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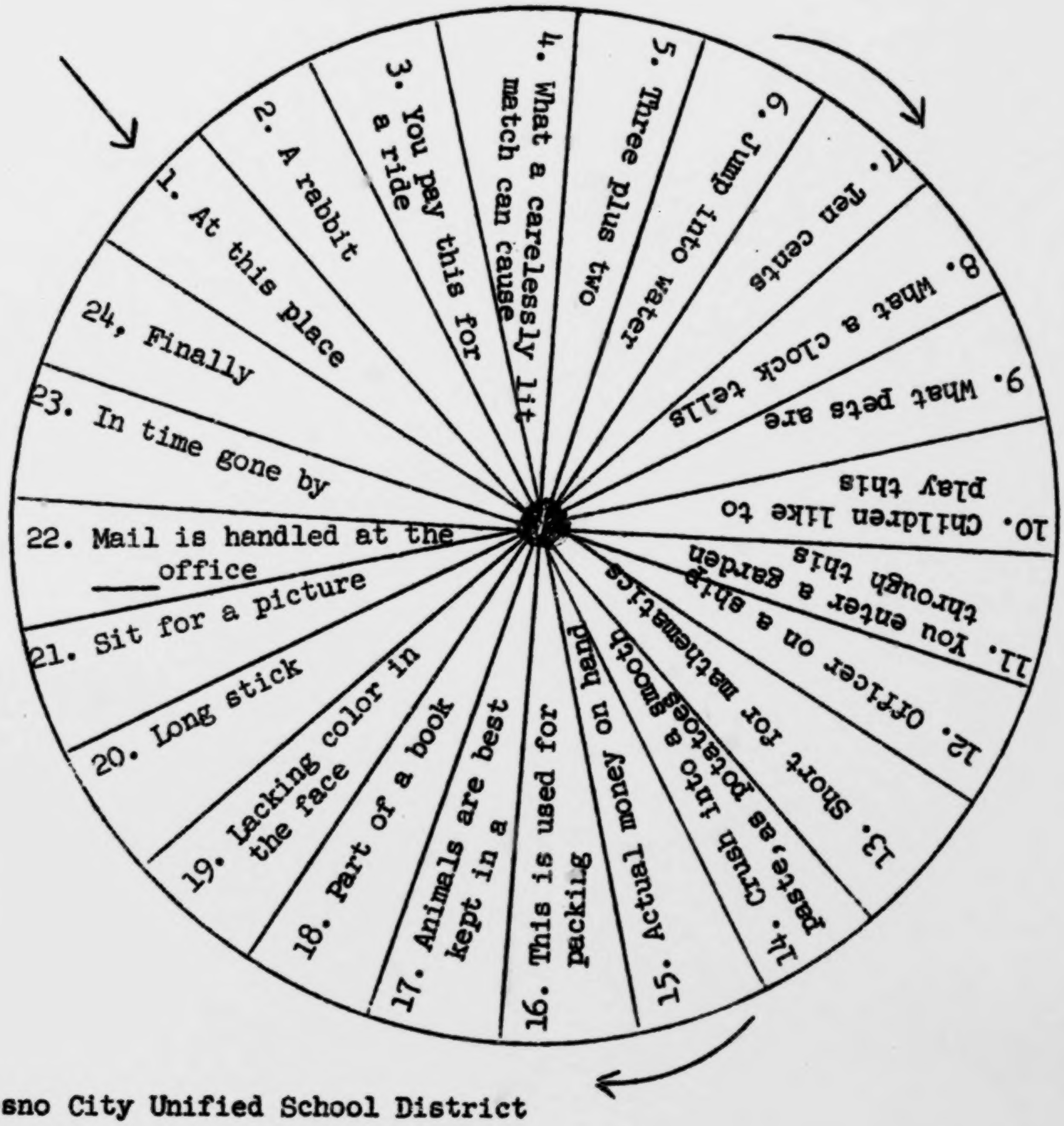
In4-S-C-En-48

PINWHEEL

Starting at the arrow, work your way around the pinwheel clockwise, by changing only one letter in each word to make a new one. The definitions will give you a clue. Each word has four letters.

Write your answers on another piece of paper.

1. ________
2. ________
3. ________
4. ________
5. ________
6. ________
7. ________
8. ________
9. ________
10. ________
11. ________
12. ________
13. ________
14. ________
15. ________
16. ________
17. ________
18. ________
19. ________
20. ________
21. ________
22. ________
23. ________
24. ________



1. At this place
2. A rabbit
3. You pay this for a ride
4. What a carelessly lit match can cause
5. Three plus two
6. Jump into water
7. Ten cents
8. What a clock tells
9. What pets are
10. Children like to play this
11. You enter a garden through this
12. Officer on a ship
13. Short for mathematics
14. Crush into a smooth paste, as potatoes
15. Actual money on hand
16. This is used for packing
17. Animals are best kept in a
18. Part of a book
19. Lacking color in the face
20. Long stick
21. Sit for a picture
22. Mail is handled at the ____office
23. In time gone by
24, Finally

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In4-S-C-En-48

Change the letters in these words to make different words.

Write your answers on another piece of paper.

1. file ____ ____ ____ ____
2. palm ____ ____ ____ ____
3. care ____ ____ ____ ____
4. pans ____ ____ ____ ____
5. tone ____ ____ ____ ____
6. scat ____ ____ ____ ____
7. pace ____ ____ ____ ____
8. dray ____ ____ ____ ____
9. silo ____ ____ ____ ____
10. dear ____ ____ ____ ____
11. sift ____ ____ ____ ____
12. hops ____ ____ ____ ____
13. rote ____ ____ ____ ____
14. reap ____ ____ ____ ____
15. tale ____ ____ ____ ____
16. odor ____ ____ ____ ____
17. meat ____ ____ ____ ____
18. ours ____ ____ ____ ____
19. nails ____ ____ ____ ____ ____
20. snug ____ ____ ____ ____
21. male ____ ____ ____ ____
22. pest ____ ____ ____ ____
23. sore ____ ____ ____ ____
24. inch ____ ____ ____ ____

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In4-S-C-En-48

DO YOU KNOW ME?

brownie	elf	fairy	goblin
witch	giant	wizard	troll

Write youranswers on another piece of paper.

1. I do magic on Halloween,
   And with a broom I'm often seen. ____________________

2. I work for others whenever I can
   And take no pay from woman or man. ____________________

3. I have the power to use a disguise,
   And most folks think I am very wise. ____________________

4. I'll eat nine cows at a single meal;
   For me such a dinner is not a great deal. ____________________

5. I'm terribly ugly. My voice is rough.
   I once tried to gobble the Billy Goats Gruff. ____________________

6. I'm smaller than Brownie. I'm sly and quick.
   On boys and girls I play many a trick. ____________________

7. I gracefully dance on a moonlight far,
   And grant you the wish that you make on a star.____________________

8. When witches in the moonlight ride,
   You'll often find me at their side. ____________________

Find and write the word that makes each paragraph foolish. What other word could you use?

Write your answers on another piece of paper.

1. As a punishment for winning the difficult contest, Bill was given a prize of fifteen dollars.

2. The queen glanced at her weeping daughter, kissed her and comforted her with harsh words.

3. The ragged peddler, after toiling all day, was very disappointed that he had sold so many things.

4. Bob felt a pleasant stab of pain in his elbow when he fell on the slippery steps.

5. Roy couldn't endure cold weather and was sorry to have an opportunity to spend the winter in Florida.

6. The tired boy leaned against a fence because he felt so steady after working all day in the orchard.

7. One day a rooster wallowed in the hot, dry dust. When he arose, his comb was covered with small bits of water.

8. The mother hen cheeped to her little new chicks.

9. Daytime is the proper time to sleep, and bed is the proper place.

Rearrange the order of the letters in the second word in each sentence to make a new word.

Write your answer on another piece of paper.

1. Change scat to a word that means fling.

____

2. Change arc to a word that means automobile.

____

3. Change sore to a word that means a fragrant flower.

____

4. Change tale to a word that means behind time.

____

5. Change aloft to a word that means be held up by water.

____

6. Change sign to a word that means make music with the voice.

____

7. Change beak to a word that means cook in an oven.

____

8. Change brag to a word that means seize suddenly.

____

9. Change tried to a word that means weary.

____

10. Change feel to a word that means run away.

____

11. Change pin to a word that means bite.

____

12. Change peach to a word that means low in cost.

____

13. Change tow to a word that means one more than one.

____

14. Change trial to a word that means a path in the wilderness.

____

15. Change thus to a word that means closed.

____

16. Change tone to a word that means a short letter.

____

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7-19-62
In4-S-C-En-48

Choose the right word to finish each sentence.

Write your answer on another piece of paper.

1. Rug is to floor as blanket is to

   bed wool sleep

2. Books are to eyes as radio is to

   ears nostrils tongue

3. Lane is to narrow as avenue is to

   wide park city

4. Ranch is to cattle as plantation is to

   city farm coffee

5. Peacock is to strut as rabbit is to

   animal hop bunny

6. Glove is to hand as cap is to

   hat head America

7. Coffee is to bush as apple is to

   vine tree fruit

8. Chirp is to cricket as caw is to

   giraffe elephant crow

9. Tears are to grief as laughter is to

   joy hunger sorrow

10. Attic is to house as loft is to

    stable patio floor

11. Elbow is to arm as knee is to

    kneel foot leg

12. Wool is to sheep as feathers are to

    lions wrens frogs

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In4-S-C-En-48

S AY
OMETHING
MART

Here's more fun with words that are opposites. This time, each word must begin with the letter S.

Write your answers on another piece of paper.

1. Buy ______________
2. Uncertain ______________
3. Sweet ______________
4. Fast ______________
5. Hide ______________
6. Noise ______________
7. Rough ______________
8. Whisper ______________
9. Winter ______________
10. Hard ______________
11. Weak ______________
12. Glad ______________
13. Long ______________
14. Open ______________
15. Large ______________
16. Frown ______________

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7-18-62
In4-S-C-En-48

S4 -

A WORD TO THE WISE

How much do you know about proverbs? Below you will find a number of old p
one or more of the words in the proverb are scrambled. See how well you ca
unscrambling the words to find out the proverb. Write your answers on anot
piece of paper.

1. Nothing ventured, nothing ngaide.
2. Spare the odr, spoil the iclhd.
3. Health is better than twleha.
4. One good turn resvedse another.
5. A bird in the ndah is worth owt in the ubhs.
6. A olfo and his money are soon taprde.
7. xernecpeie is the best teacher.
8. Hitch your wagon to a atrs.
9. A chip off the dol kbocl.
10. Like father, ikle nso.
11. Rolling osntse gather no smos.
12. Fine feathers do otn make nefi drbis.
13. Knowledge is oepwr.
14. npensei saved are pennies nredea.
15. You cannot eat your kace and have ti oto.
16. yobs will be boys.
17. Too many chiefs and no daninis.
18. Fools rush in where lganse fear ot tread.
19. Variety is the very ipsec of flie.
20. Everything comes to him who sawti.
21. Blood is thicker than rtwea.
22. Waste not, twna ont.
23. Too many cooks opsli the uops.
24. A hstcti in time saves einn.
25. An plpae a day keeps the ctoodr away.
26. East or west, mheo is stbe.

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8-28-63 - In4-S-C-En-48

R - 11

roverbs,
a do at
her

S4 - R - 12

SCRAMBLED WORDS

The following words have to do with school, see how many of them you can unscramble.

Write your answers on another piece of paper.

1. agerdin
2. lpesgnli
3. sokob
4. eksd
5. rlbadcobak
6. akchl
7. alosic diustse
8. mractihtie
9. nlcpie
10. rpaep
11. dnlicehr
12. rtoepr rcda
13. taicvnoa
14. ugalenag
15. aresre
16. cesres
17. cetahre
18. nrcpilpai
19. rylarib
20. setst

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8-28-63
In4-S-C-En-48

ŦHâr wäz ăn ōld măn

ŦHâr wäz ăn ōld măn hwo͞o sĕd,
"wĕl!
wĭl nō·′bod′·ĭ ăn′·sẽr ŦHĭs bĕl?
ī hăv po͝old dā ănd nīt, tĭl mī
hâr hăz grōn hwīt,
but nō′·bŏd·ĭ ăn′·sẽrs ŦHĭs bĕl!"

ĕd′·wẽrd lêr

S4 - R - 14

FROM LEAST TO MOST

Put 1 before the least, 2 before the middle one, and 3 before the most.

Write your answers on another piece of paper.

1. Compare these in length.

____ inch

____ yard

____ foot

2. Compare these in weight.

____ pumpkin

____ huckleberry

____ apple

3. Compare these in age.

____ man

____ child

____ baby

4. Compare these in strength.

____ insect

____ heifer

____ elephant

5. Compare these in size.

____ robin

____ swan

____ fly

6. Compare these in brightness.

____ twig

____ tree trunk

____ branch

7. Compare in length of time.

____ minute

____ month

____ year

8. Compare these in width.

____ path

____ avenue

____ lane

9. Compare these in size.

____ man

____ dwarf

____ giant

10. Compare these in number.

____ twenty

____ couple

____ dozen

11. Compare these in darkness.

____ midnight

____ dusk

____ forenoon

12. Compare these in weight.

____ acorn

____ turkey

____ rat

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8-29-63 - In4-S-C-En-48

S4 - R - 15

Find a word from the list below which belongs at the top of each box. Write your answers on another piece of paper.

buildings
clothes
colors
days
directions

dishes
fowls
furniture
grains
months

noises
regions
seasons
shapes
sports

states
tastes
tools
trees
vegetables

1. ____________ palm spruce fir	6. ____________ stool desk stove	11. ____________ spade ax plow	16. ____________ sweater sombrero jacket
2. ____________ gander rooster drake	7. ____________ southward upward westward	12. ____________ spring summer autumn	17. ____________ squash cabbage beet
3. ____________ wedge square circle	8. ____________ bitter sweet sour	13. ____________ rice corn wheat	18. ____________ buzz snicker hoot
4. ____________ June January May	9. ____________ scarlet brown gray	14. ____________ Monday Tuesday Friday	19. ____________ Nebraska New York Ohio
5. ____________ prison cottage hotel	10. ____________ plain desert wilderness	15. ____________ plate cup bowl	20. ____________ shooting skating baseball

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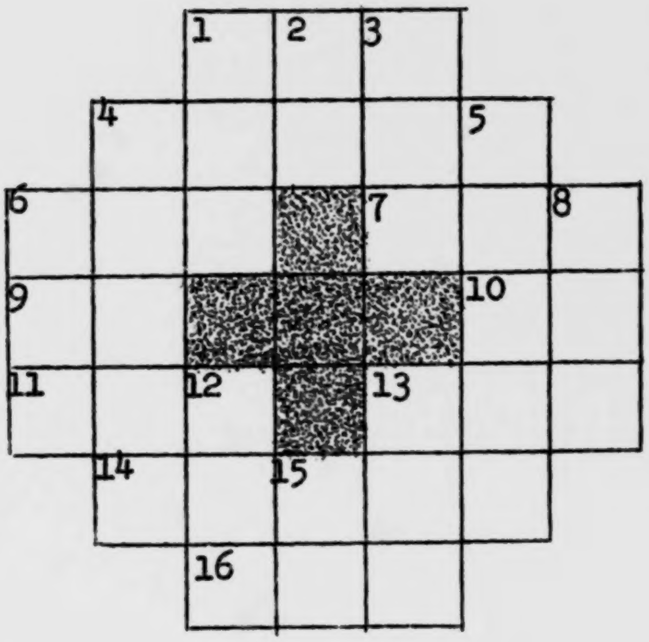
S4 - R - 16

QUOTE AND UNQUOTE

Write your answers on another piece of paper.



Across

1. Good citizens obey the ______.
4. "A barking dog never ________."
6. From _____ to bottom.
7. Short for et cetera _____
9. "A stitch _____time saves nine."
10. Benjamin Franklin said, "We must all hang together___we shall all hang separately."
11. "One if by land; two if by _____."
13. "Baa, baa, blacksheep, have you _____ wool?"
14. "Four _____ and seven years ago."
16. Danger! Dynamite! _________

Down

1. "There's many a slip 'twixt the cup and the _______."
2. "If ____ first you don't succeed, try, try again."
3. _______ Willie Winkie
4. "Sticks and stones may break my _________."
5. "A rolling ________ gathers no moss."
6. "My country ____ of thee."
8. "Don't _____ over spilt milk."
12. "People are judged by the way they ________."
13. Nickname for Arthur _________
15. Slogan on early American flag, "Don't tread ________me."

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8-29-63
In4-S-C-En-48

S4 - R - 17

DO YOU REMEMBER?

Number the sayings to match the titles of the stories.

Write your answers on another piece of paper.

1. Little Red Riding Hood
2. The Old Woman and Her Pig
3. Jack and the Beanstalk
4. The Billy Goats Gruff
5. The Brownie of Blednock
6. Johnny Cake
7. The Little Red Hen
8. Three Little Pigs
9. Snow White
10. The Three Bears
11. Cinderella
12. Hansel and Gretel
13. Little Black Sambo
14. Chicken Little

1. ☐ "Somebody has been at my porridge, and has eaten it all up."

2. ☐ "Mirror, mirror, on the wall, Who's the fairest one of all?"

3. ☐ "Oh, Grandmother! Grandmother! What big arms you have!" "The better to hug you with, my dear."

4. ☐ "Now I'm the grandest tiger in the jungle."

5. ☐ "I'll huff, and I'll puff, and I'll blow your house in!"

6. ☐ "Oh, oh! The sky is falling down. I saw it with my eyes. I heard it with my ears. And a piece of it fell on my head."

7. ☐ "Fe, fi, fo, fum! I smell the blood of an Englishman."

8. ☐ "I've run away from a little old woman and a little old man. And I can run away from you, I can, I can!"

9. ☐ "Dog! Dog! Bite pig. Piggy won't get over the stile, and I shan't get home tonight."

10. ☐ "Nibble, nibble like a mouse. Who is nibbling at my house?"

11. ☐ "Oh, my name is Aiken-Drum, and to do your work I've come.

12. ☐ "Trip-trap! Trip-trap! Who's that tripping over my bridge?"

13. ☐ "Remember to come back home before the stroke of twelve."

14. ☐ "Not I," said the dog. "Not I," said the cat. "Then I'll do it myself," she said. And she did.

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S4 - R - 18

STORYBOOK LANGUAGE AND ORDINARY LANGUAGE

Write your answers on another piece of paper.

1. had not happened since dear knows when
2. dare say that it is possible
3. set out to seek his fortune
4. beside himself with joy
5. to return sooner or later
6. her proud heart melted
7. took his leave
8. grant your heart's desire
9. happened into the throne room
10. proud of her high birth
11. a princess whose beauty had been noised abroad
12. donned royal robes
13. at length it came to pass
14. prevent her escape
15. at the stroke of midnight
16. so full of wonder was he
17. roamed near and far
18. gave herself no rest
19. appeal of laughter

____ went into the throne room by accident

____ had not happened for a long time

____ was especially glad

____ left home to earn a living

____ she became sorry

____ to come back sometime

____ suppose that it can be done

____ proud to be the daughter of a king

____ said goodby and left

____ did not stop working

____ a princess whose beauty had been talked about in distant countries

____ give you the thing you want most

____ put on a king's clothes

____ wandered through many places

____ a loud, long laugh

____ finally it happened

____ he was so amazed

____ just at 12 o'clock at night

____ keep her from getting away

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For the answers refer -- -- S - 1
to the following text -

Basic Science Education Series

Resource: Spiders

Write your answers on another piece of paper. Do not write on this copy.

1. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

    ___ a. The little spider in the story came from an egg.
    ___ b. Some of the little spiders in the egg case were eaten up by their brothers and sisters.
    ___ c. The little spider in the story traveled for many miles before she made her first web.
    ___ d. An old spider taught the little spider how to make a web.
    ___ e. The little spider had to practice for a long time before she could make a good web.
    ___ f. The little spider's first web was small.
    ___ g. The spider had to "change her clothes" several times as she was growing up.
    ___ h. The spider caught insects in her web.
    ___ i. The spider wrapped up some of the insects she caught.
    ___ j. The spider lived for many years.

2. How many different kinds of spiders do the pictures on the inside covers show?

3. Name three kinds of spiders that catch their food in webs.

4. Name two spiders that make nests for themselves in the ground.

5. Name a spider that is protected by its color.

6. Name a kind of spider that jumps on insects to catch them.

7. Fill in the two colums:

	Insects	Spiders
a. How many legs?		
b. How many feelers?		
c. How many main divisions in their bodies?		

8. Tell one thing a garden spider can do which an ant cannot do.

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In4-S-C-En-49

For the answers refer to the following text - S - 2

Basic Science Education Series

Resource: Spiders

Write your answers on another piece of paper. Do not write on this copy.

1. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

    ___ a. Most spiders live in the water.
    ___ b. All spiders live where it is warm the year round.
    ___ c. Some spiders can run about on ponds.
    ___ d. All spiders live out of doors.
    ___ e. Some spiders live high up on mountains.

2. Tell one way in which the hairs on its body help the freshwater spider.

3. Tell three ways in which spiders catch insects.

4. Name four kinds of animals that are eaten by spiders.

5. Tell five ways in which spiders travel.

6. Tell two reasons why spiders travel.

7. Name four enemies of spiders.

8. What spider is really an enemy of people?

9. Name two weapons spiders have.

10. Name five kinds of webs.

11. Tell two ways in which spiders help us.

12. Why isn't it easy to raise hundreds of spiders?

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For the answers refer to the following text - S - 3

Basic Science Education Series

Resource: Seeds and Seed Travels

Write your answers on another piece of paper. Do not write on this copy.

1. What is a seed?

2. Where do seeds come from?

3. What do the first two pictures on page 8 and the picture on page 6 help tell you?

4. In what way are all the seeds in the picture on page 20 alike?

5. What is likely to happen if seeds travel very far by water?

6. Tell how the seeds of the plant in the picture on page 28 are scattered.

7. Why is it important for seeds to have good ways of traveling?

8. Tell three ways in which seeds travel.

9. How do the seeds shown in the pictures on page 33 travel?

10. Name one other kind of seed that travels in the same way.

11. What kind of plant is shown in the picture at the top of page 31? How does this plant scatter its seeds?

12. Notice the picture of the squirrel on page 30. What do squirrels have to do with seeds and seed travels?

13. What seeds sometimes go coasting?

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For the answers refer to the following text - S - 4

Basic Science Education Series

Resource: Animals of the Seashore

Write your answers on another piece of paper. Do not write on this copy.

1. Are the jellyfish in the picture on page 4 more or less than a month old? How do you know?

2. What gives comb jellies their name?

3. What do you think is the most surprising thing about the Portuguese man-of-war?

4. How does a periwinkle protect itself?

5. Name two enemies of the oyster.

6. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

___ a. A clam has two shells.
___ b. A clam breathes with lungs.
___ c. Some clams are good to eat.
___ d. A clam catches its food with long feelers.
___ e. Some clams are more than a yard across.

7. Some of these animals have one shell; some have two. Draw a line under each one that has one shell. Draw two lines under each one that has two shells.

abalone
scallop
cowry
oyster drill
toothshell
calico clam
cockle
mussel

8. What is the long worm at the top of the picture on page 23?

What is the little worm in the center of the picture?

9. Match these parts of sentences:

(a) The worms at the bottom of the picture on page 23	stay in their burrows all the time.
(b) Winges tube worms	catch food with their gills.
(c) Clam worms	catch their food with their sharp jaws.

10. How do the animals in the picture on page 24 bother people?

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For the answers refer to the following text - S - 5

Basic Science Education Series

Resource: Animals of the Seashore

Write your answers on another piece of paper. Do not write on this copy.

1. Some of these sentences are true; some are not. Put C in front of each sentence that is true and a X in front of each sentence that is not true.

    ___ a. Lobsters eat seaweed.
    ___ b. A lobster that loses a claw can grow a new one.
    ___ c. A lobster sheds its coat often during its life.
    ___ d. Most lobsters spend the summers in shallow water and the winters in deeper water.
    ___ e. Lobsters never fight with one another over food.

2. Name a crab that uses another animal's shell as its home.

3. In what queer way does the spider crab protect itself?

4. Why is a horseshoe crab sometimes called "a living fossil"?

5. Name four cousins of the starfish.

6. Underline each right ending for this sentence:

    clams.
    starfish.
    Pearls are found in - oysters.
    sand dollars.
    lobsters.

7. How is the water in the sea different from the water in a river?

8. How can the animals that live in one place along the seashore most of their lives get all the food and oxygen they need?

9. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

    ___ a. Most of the animals of the seashore are animals without backbones.
    ___ b. The animals of the seashore are fitted for living in salt water.
    ___ c. All seashore animals eat the same kinds of food.
    ___ d. The seashore animals have different ways of protecting themselves.
    ___ e. Almost every baby animal on the seashore lives to grow up.

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For the answers refer to the following text - S - 6

Basic Science Education Series

Resource: Birds

Write your answers on another piece of paper. Do not write on this copy.

1. Tell six ways in which all the kinds of birds in the pictures in this book are alike.
2. Tell three ways in which the penguin on page 4 is not like the hummingbird on page 5.
3. Name a bird that is a cousin of the red-headed woodpecker.
4. Name a bird that belongs to the same family as the bluebird.
5. Name a bird that is a cousin of the Baltimore oriole.
6. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

___ a. All brown birds are in the same bird family.
___ b. There are only about ten bird families.
___ c. All birds in the thrush family like to live near people.
___ d. People have to study birds' feet and bills and wings to find out which birds are cousins.
___ e. A female bird is always the same color as her mate.

7. Tell how each of these birds got its name:

bob-white flycatcher woodpecker

oven-bird red-winged blackbird

8. Tell which nest on the inside front cover is which:

1. ________________ 2. ________________
3. ________________ 4. ________________
5. ________________ 6. ________________
7. ________________ 8. ________________

(Pictures numbered left to right.)

9. On the inside back cover are pictures of the bills of several birds. List these birds. After its name tell one thing each bird eats.

________________ ________________
________________ ________________
________________ ________________

10. Tell two kinds of work that birds do with their bills.
11. Tell how each of the birds pictured on page 34 helps us.
12. Tell how each of the birds pictured on page 35 helps us.

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For the answers refer to the following text - S - 7

Basic Science Education Series

Resource: Clouds, Rain, and Snow

Write your answers on another piece of paper. Do not write on this copy.

1. What is happening in the first picture on page 9? What is happening in the second picture?
2. What do we call the changing of water to water vapor?
3. What has to happen to water vapor to change it to water?
4. Name three kinds of clouds.
5. What are the clouds shown at the bottom of page 11 made of?
6. What are fogs?
7. Why are they dangerous?
8. Name six kinds of crystals
9. In what kind of weather are icicles formed?
10. Name two kinds of frozen raindrops.
11. What does the picture on page 30 tell you about the weather when the picture was taken?
12. Name the colors in the rainbow.
13. Draw a double rainbow.

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For the answers refer to the following text - S - 8

Basic Science Education Series

Resource: Toads and Frogs

Write your answers on another piece of paper. Do not write on this copy.

1. What are tadpoles?

2. Fill the blanks in these sentences:

   a. The tadpole breathed with ____________.
   b. The __________ legs of the tadpole came out first.
   c. The tadpole __________ during the winter.
   d. While a tongue was growing in its mouth, the tadpole lived on its ______.
   e. The frog the tadpole turned into, breathed with _________.
   f. The frog ___________ during the winter.
   g. The tadpole ate mostly ____________.
   h. The frog it grew into, ate ____________.
   i. As the frog grew, it shed its ___________ several times.

3. Tell one way in which a toad's tongue is different from yours.

4. Name two ways that frogs and toads are different.

5. Some of these sentences are true; some are not. Put a C in front of each sentence that is true and a X in front of each sentence that is not true.

   ___ a. All toads and frogs are the same color.
   ___ b. All toads and frogs are the same size.
   ___ c. All grown-up toads and frogs have lungs.
   ___ d. Most toads and frogs are tadpoles when they are first hatched.
   ___ e. All frogs and toads have four legs.

6. Tell two ways in which a wood frog is different from a common toad.

7. Where do frogs and toads live?

8. What do frogs and toads eat?

9. How do toads and frogs take a drink?

10. Name four animals that kill toads and frogs.

11. Tell three ways in which toads help us.

12. Tell three ways in which frogs help us.

13. The ______________ are cousins of the toads and frogs. They are amphibians, too.

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For the answers refer to the following text - S - 9

Basic Science Education Series

Resource: Magnets

Write your answers on another piece of paper. Do not write on this copy.

1. The two parts of an electric magnet are the ____________________ and the ________________.

2. What kind of magnet is the one in the picture on page 2?

3. What will happen when the man who is working the magnet in the picture on page 2 opens the switch?

4. Put a P in front of the sentences that tell about permanent magnets. Put an E in front of the ones that tell about electric magnets.

    ___ a. They are magnets all the time.
    ___ b. They are magnets some of the time.
    ___ c. You can make them both pick up and drop things.
    ___ d. They are made of iron.
    ___ e. They are made of steel.

5. Tell two ways in which permanent magnets and electromagnets are alike.

6. Tell one way in which permanent magnets are different from electromagnets.

7. Put a C in front of the sentences that are true. Put a X in front of the sentences that are not true.

    ___ a. All magnets keep their magnetism.
    ___ b. Electric magnets are not magnets unless a current of electricity is flowing through them.
    ___ c. A big magnet is always stronger than a little magnet.
    ___ d. Two poles that are alike attract each other.
    ___ e. Every magnet has an N pole and an S pole.
    ___ f. A compass needle is an electric magnet.

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For the answers refer to the following text - S - 10

Basic Science Education Series

Resource: Magnets

Write your answers on another piece of paper. Do not write on this copy.

1. Magnets of three different shapes are being used in the pictures on page 9. What are the three shapes?

2. Here is a list of twelve things. Underline the name of each one a magnet would attract.

steel needle
rubber band
iron nail
steel nail

silver ring
gold ring
brass knob
copper penny

glass plate
iron filings
sawdust
tin can

3. Fill in the blanks in this sentence:

______________ holds its magnetism better than ___________.

4. What kind of rock is the rock in the picture on page 7 supposed to be?

5. Put the right words in the blanks in these three sentences.

Two north poles ____________ each other.
A north pole and a south pole ____________ each other.
Two south poles ____________ each other.

6. On pages 16 and 17 there are two designs made with magnets and iron filings. One was made by using a horseshoe magnet, and the other by using a bar magnet. Which is which?

7. What does the picture on page 11 show?

8. What are three things you must be careful not to do if you want your permanent magnets to stay strong?

1. ______________________________
2. ______________________________
3. ______________________________
4. ______________________________

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S4 - S - 11

SEA LIFE

Guide Questions

Name ______________________________ Date ________________

1. Name or names of the animal
2. What kind of animal it is (mammal, fish, invertebrate, etc.)
3. In what place it is found (fresh water, what ocean, what country, what lake, what river, what part of what country)
4. In what depths it is found
5. Describe it, including its size and usual colors
6. What it eats
7. How it catches its food
8. Enemies
9. Ways it uses to avoid or fight its enemies
10. How it reproduces its young (where it lays its eggs, when it lays its eggs, when the eggs hatch, what the young eat, where the young go, other unusual features, etc., or are the young born alive)
11. How it propels (moves) itself
12. Any uses it has for man (food, perfume, oil, sport, etc.)
13. Any unusual features

Try to accompany each report with a picture or drawing.

S4 - S - 11a

SEA LIFE

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SS - 1

WHO AM I?

Write the correct answers on another piece of paper.

1. I discovered the New World on October 12, 1492. I believed you could sail to the East by sailing West, because the world was round. I named the people living in the New World "Indians." I was very brave.

   Who am I?______________________________

2. I am a Spanish explorer. I was looking for riches and went to Mexico and conquered the Aztec Indians for gold.

   Who am I?______________________________

3. I am a Portuguese sailor sent by the Viceroy of Mexico to explore the land called California. I am the first European to come to California. I found San Diego Bay. I fell and broke my arm and later died.

   Who am I?______________________________

4. I am an English explorer. I plundered the Spanish ships because England disliked Spain. I stopped on the coast of California for food and water and claimed the land for England. When I returned to England, I had sailed around the world.

   Who am I?______________________________

5. Spain needed a friendly harbor for the Manila galleons to get food and water. I was sent to find this harbor north of San Diego. I found the same bay that Drake found. A storm came up and the ship was wrecked and I had to get back to Mexico in a small boat.

   Who am I?______________________________

6. I discovered Monterey Bay. I thought it was a quiet, safe harbor like we needed for the galleons. It was a good place to build a town. I returned to Mexico to tell them. I missed the best harbor of all.

   Who am I?______________________________

Drake Cermenho Viscaino Cabrillo Columbus Cortes

1. ___ ___ ___ ___ ___ ___ CTEROS
2. ___ ___ ___ ___ ___ ___ ___ ___ HEEMNCOR
3. ___ ___ ___ ___ ___ ___ ___ ___ LMUOSCBU
4. ___ ___ ___ ___ ___ ERKDA
5. ___ ___ ___ ___ ___ ___ ___ ___ NIISVAOC
6. ___ ___ ___ ___ ___ ___ ___ ___ BCLLIOAR

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WHICH JOHN AM I?

In the early days of California history, there were several very important men whose first name was John. Can you tell which John these riddles are about?

Write your answers on another piece of paper. Do not write on this copy.

1. I was sent west by the United States to make maps of the trails that trappers had found. John Sutter helped my party. My reports made many people want to come to California. Which John am I?

   1. ______________________

2. I studied to be a doctor. I heard stories about California from the trappers. I settled down in the Central Valley of California. Which John am I?

   2. ______________________

3. I was not an American citizen before I came to California by ship. I built an important settlement between the Sacramento River and the American River. Which John am I?

   3. ______________________

4. I was secretary of a wagon train that headed west from independence, Missouri. I guided the party over the Sierra Nevada Mountains from the desert country of Utah and Nevada. Which John am I?

   4. ______________________

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NAME GAME

Write the correct answers to the riddles on another piece of paper.

Choose your answers from the word list.

Los Angeles
Pony Express
San Jose
El Camino Real
San Diego
San Pedro Bay
Anza Trail
Sutter's Fort
Butterfield & Co.
Santa Barbara
Cajon Pass
Union Pacific
San Bernardino
Old Spanish Trail
San Francisco Bay
Donner Pass
Central Pacific
Monterey
Sacramento
Half Moon Bay
Santa Fe

1. I am a highway. I was once a trail that went from one presidio to another from San Diego to San Francisco. I was the route followed by the Spanish king's messengers. What is my name?

   ____

2. I was a company which carried the mail from San Francisco to St. Louis. I had the best of horses, well-built strong stages, and skillful drivers. I carried mail in good weather and in storms. What is my name?

   ____

3. I was a railroad company. I was one of two companies which built the first railroad across the continent. I started building in Sacramento and went toward the east. What is my name?

   ____

4. I am a city. About four and one-half million people live in or near me. I have become a great city because so many early routes passed through me. I had no good harbor until my citizens built one for me. What is my name?

   ____

5. I am a mountain pass. I lead through the mountains from the San Bernardino Valley into the Mojave Desert. Jebediah Smith was one of the first travelers to pass through me. What is my name?

   ____

6. I am a bay. I have one of the finest natural harbors in the world. Many great cities have been built on my shores. Almost two and one-half million people live in all of these cities. Ships enter me through the Golden Gate. What is my name?

   ____

7. I am a town on the California coast. I was the capital of Spanish California. My presidio was the largest army post in Spanish California. What is my name?

   ____

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NAME GAME

Write the correct answers to the riddles on another piece of paper. Choose your answers from the word list.

Flood
Dredger
Weir
Causeway
Aqueduct
Water Vapor
Levee

1. I am on the banks of rivers and streams. I keep water from overflowing into the beautiful farmlands. Sometimes highways are built on top of me. What am I? ________________

2. I am like a wide, low dam. My top is a little lower than a levee. Water runs over my top into a channel which carries it into the lowlands beside the river. What am I? ________________

3. I am like a long bridge. I stretch over marshlands or shallow water. I carry traffic. What am I? ________________

4. I was built by the early padres and Indians of the Spanish missions. I was used to water their vineyards, orchards, and gardens. I was built of stone. What am I? ________________

5. I am lighter than air. When I rise up into the air, I cannot be seen. When I am cooled, I change into fog or clouds. What am I?

   ____

6. I caused heavy damage in the early days of California. I tore down buildings. I caused entire families and livestock to drown. I was hard to control. What am I? ________________

7. I am a machine used for building levees along a river. I scoop up mud from the river bed and drop it along the river bank.
   What am I? ________________

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7-16-62
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SPANISH WORD GAME

Write the correct answers on another piece of paper.

Choose your answers from the word list.

raisins
presidio
rodeo
mano
tortilla
rancho
pueblo
ranchero
yoke
vaquero
jerky
sickle
riata
era
carreta
jerga
serape
padre
senorita
senor

1. Wooden bar laid across the head of oxen used to pull heavy loads: ______________________________
2. Sharp curved knife of steel used to cut grain: ________________________
3. Threshing ground for wheat: ______________________________
4. Rope with a loop at the end: ______________________________
5. Dried beef: ______________________________
6. Cowboy: ______________________________
7. Round-up: ______________________________
8. Owner of a ranch: ________________________
9. Town: ______________________________
10. Fort: ______________________________
11. Land used for raising cattle: ___________________________
12. Thin round cake: ______________________________
13. Dried grapes: ______________________________
14. A grinding stone: ___________________________
15. A Spanish cart: ______________________________
16. Kind of wool cloth: _________________________
17. Blanket to wear as an overcoat: __________________________
18. Father: ______________________________
19. A man: ______________________________
20. A young lady: ________________________

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FACTS ABOUT WASHINGTON AND LINCOLN

Write the correct answers on another piece of paper.

1. ________________ I was the first president of the United States.
2. ________________ I was born in Kentucky.
3. ________________ My picture is on a five dollar bill.
4. ________________ I lived on a plantation.
5. ________________ I was born in Virginia.
6. ________________ At an early age I was a successful surveyor.
7. ________________ I owned slaves.
8. ________________ I helped the thirteen colonies gain their freedom from England.
9. ________________ My picture is on a one dollar bill.
10. ________________ I was assassinated.
11. ________________ The first president of the United States was my hero.
12. ________________ I was against slavery.
13. ________________ Mount Vernon was my home.
14. ________________ I was the sixteenth president of the United States.
15. ________________ I was a lawyer before I became president.
16. ________________ I was a champion rail splitter.
17. ________________ My mother taught me to read because I had little chance to go to school.
18. ________________ The Negroes gained their freedom while I was president.
19. ________________ I was born February 22, 1732.
20. ________________ I was born February 12, 1809.
21. ________________ I was president of the United States during the Civil War.
22. ________________ I was a successful farmer.
23. ________________ I was reared in the midst of plenty, but I was able to stand hardships, too.

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LET'S TAKE A TRIP IN CALIFORNIA

Let's take a trip on Highway 99 starting at our southern boundary and traveling north to Oregon. Using a road map, list the cities we would go through.

Write the correct answers on another piece of paper.
Do not write on this copy.

LET'S TAKE A TRIP IN CALIFORNIA

Today let's travel Highway 101 from Oregon to Mexico. We'll start in Crescent City and travel south. What cities will we go through? Write the answers on another piece of paper.

INTERESTING THINGS ABOUT CALIFORNIA

Write the correct answers on another piece of paper.

1. The California State Tree is the ______________________________.

2. The California State Flower is the ____________________________.

3. The California State Bird is the ______________________________.

4. California State's colors are ________________________________.

5. The California State Seal has ____________________________ stars. This tells us that California was the ___________ state to join the United States.

6. The California State Flag has what animal on it? ______________.

7. California is the only state in the United States where the

   _________________________ tree grows.

8. The capital of California is ___________________________________.

9. Mount __________________ is the highest mountain in California. This mountain is also the highest place in the United States if you do not count Alaska.

10. Mount ________________ is the last active volcano in the United States, excepting Alaska. This mountain is in California.

11. Mount ________________, in California, is a very beautiful mountain at the top of the Central Valley.

12. ______________________, in California, is one of the finest natural harbors in the world.

13. Excepting Alaska, California has the ________________ coastline of any state in the United States.

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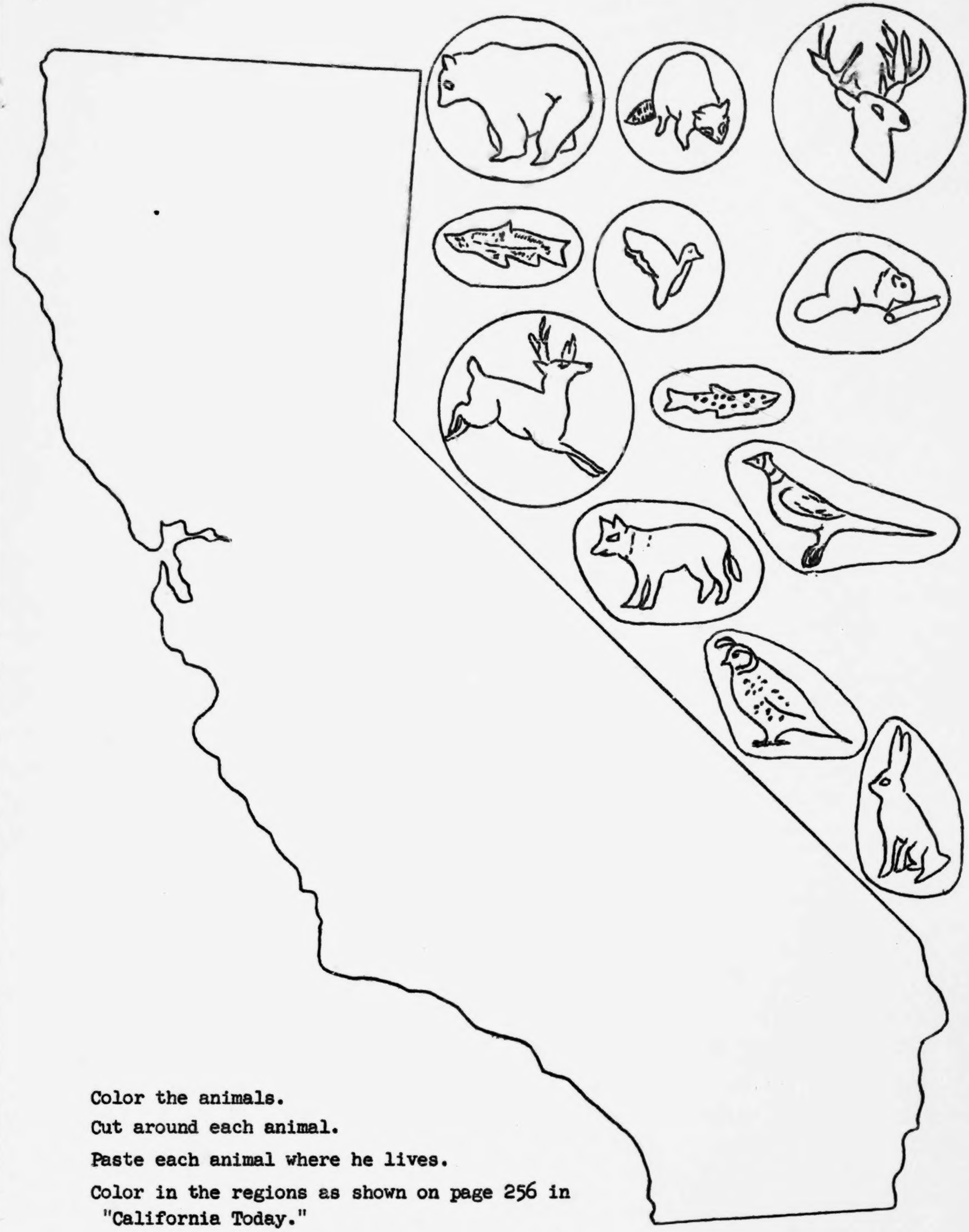

Color the animals.

Cut around each animal.

Paste each animal where he lives.

Color in the regions as shown on page 256 in "California Today."

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7-17-62
In4-S-C-En-51

Make six maps of California. Then do one of these projects on each map:

MAP I

Locate:

1. Coast Range Mountains
2. Sierra Nevada Mountains
3. Central Valley
4. Pacific Ocean
5. Sacramento River
6. San Joaquin River
7. San Francisco Bay
8. San Diego Bay
9. Lake Tahoe
10. Colorado River

MAP II

Locate:

1. San Francisco
2. Los Angeles
3. Sacramento
4. Oakland
5. Fresno
6. San Diego
7. Monterey

MAP III

Show the location of the 21 California Missions.

MAP IV

Show the trails of

1. Cabrillo
2. Drake
3. Father Serra
4. Bidwell
5. Donner Party

MAP V

1. Draw in the major railroad lines of today.
2. Show to which railroad company each belongs or which company uses the tracks.

MAP VI

1. Draw in the major highways in California.
2. Number them as they are numbered on highway signs.

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7-17-62
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S4 - SS - ~~10~~ 12

SOCIAL STUDIES LETTER GAME

When you put the letters in their proper order, each group of letters will spell out the name of one of the early explorers. Write your answers on another piece of paper.

1. ______ T R Z E C O

2. ________ H E E M N C O R

3. ________ L M U O S C B U

4. _____ E R K D A

5. ________ N I I S V A O C

6. ________ B C L L I O A R

DRAKE
VISCAINO
CERMENHO
COLUMBUS
CORTEZ
CABRILLO

Matching

I	II
____ 1. Flint is a stone that	a. because they split easily.
____ 2. Redwood and cedar were used	b. vines because there were no nails.
____ 3. Poles were tied together by	c. can be chipped to make a sharp edge.
____ 4. Twine was made	d. made into leather for clothing and shoes.
____ 5. The skin of animals was	e. strong cords to catch animals.
____ 6. Traps were made of	f. from the stems of certain plants.
____ 7. Fish were caught with	g. nets and traps, or hooks and lines.
____ 8. Boats were made from	h. and rafts
____ 9. Indians made boats	i. logs or tule reeds.

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9-4-63
In4-S-C-En-51

S4 - SS - ~~11~~ 13

EXPLORERS

How many can you remember?

Write your answers on another piece of paper.

1. I discovered the New World on October 12, 1492. I believed you could sail to the East by sailing West, because the world was round. I named the people living in the New World "Indians." I was very brave.

   Who am I? ______________________

2. I am a Spanish explorer. I was looking for riches and went to Mexico and conquered the Aztec Indians for gold.

   Who am I? ______________________

3. I am a Portuguese sailor sent by the Viceroy of Mexico to explore the land called California. I am the first European to come to California. I found San Diego Bay. I fell and broke my arm and later died.

   Who am I? ______________________

4. I am an English explorer. I plundered the Spanish ships because England disliked Spain. I stopped on the coast of California for food and water and claimed the land for England. Then I returned to England. I had sailed around the world.

   Who am I? ______________________

5. I took over, when Cabrillo died, as captain of the ships. I sailed up the California coast and then back to Mexico.

   Who am I? ______________________

6. Spain needed a friendly harbor for the Manila galleons to get food and water. I was sent to find this harbor north of San Diego. I found the same bay that Drake found. A storm came up and my ship was wrecked and I had to get back to Mexico in a small boat.

   Who am I? ______________________

7. I discovered Monterey Bay. I thought it was a quiet, safe harbor like we needed for the galleons. It was a good place to build a town. I returned to Mexico to tell them. I missed the best harbor of all.

   Who am I? ______________________

FERRELO
DRAKE
CERMENHO
VISCAINO
CABRILLO
COLUMBUS
CORTEZ

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9-4-63
In4-S-C-En-51

S4 - SS - ~~12~~ 14

CALIFORNIA HISTORY

Write your answers on another piece of paper.

Matching

1.	Blubber	6.	Portola	___ Father	___ Americans
2.	Mission	7.	Yankees	___ City	___ Governor
3.	Pueblo	8.	Valquero	___ Meat	___ Watering
4.	Drake	9.	Jerky	___ "Golden Hind Ship"	___ Whale
5.	Serra	10.	Irrigation	___ Adobe	___ Cowboy

* *

Fill In

1. A person from America ____________________

2. A town or village ____________________

3. An animal with a fine fur ____________________

4. Something torn or worn out ____________________

5. A person who searches for new lands ____________________

6. People who exchange things, like furs for silks ____________________

7. A person who catches animals ____________________

8. To allow a person to do what he asks ____________________

9. A hot, dry land ____________________

TRAPPER

YANKEE

SETTLEMENT

DESERT

RAGGED

EXPLORER

BEAVER

PERMISSION

TRADER

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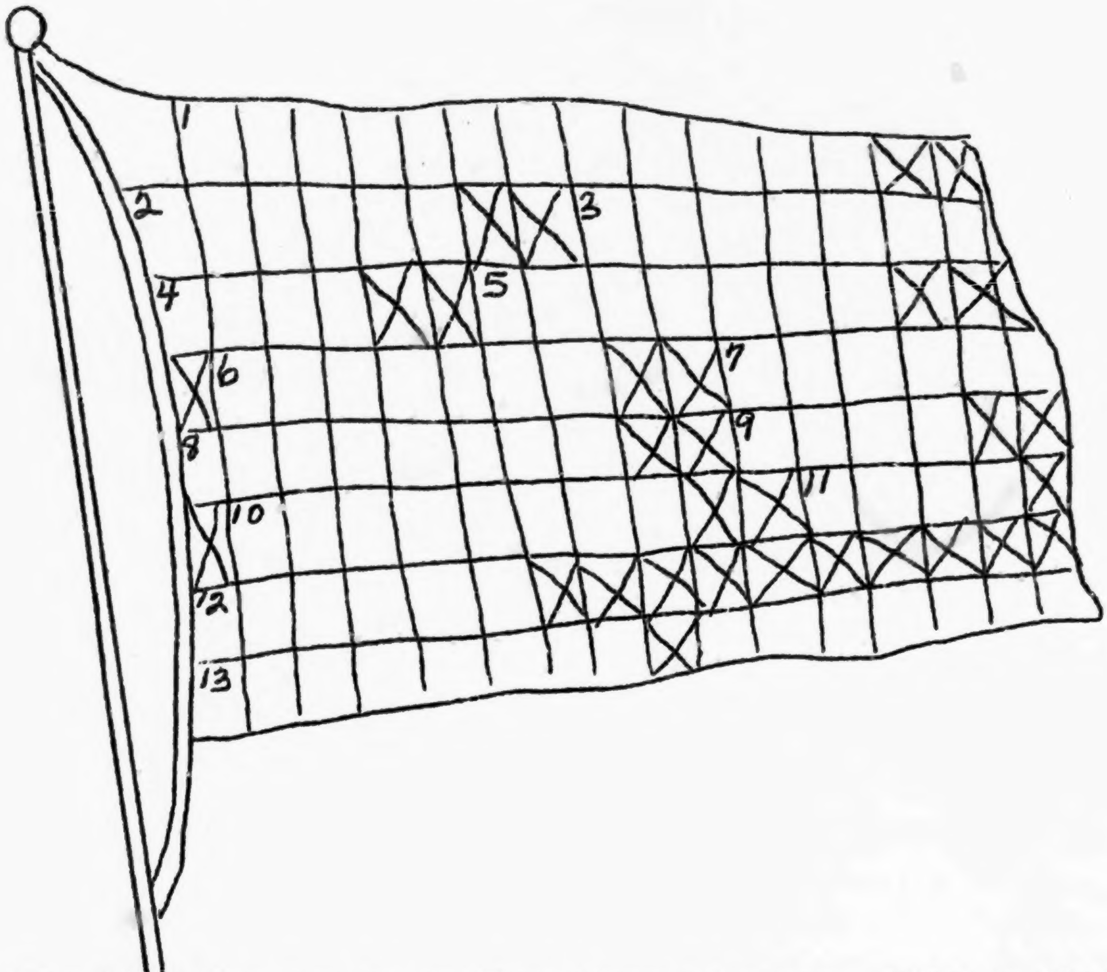
9-4-63 - In4-S-C-En-51

S4 - SS - ~~13~~ 15

SOCIAL STUDIES



Draw a flag like this one on another piece of paper. Fill in the blanks with the answers to these questions.

1. California was the (give number) state admitted to the Union.
2. This county was formed in 1856.
3. These were the first people to live in the San Joaquin Valley.
4. This was built to protect people against the Indians.
5. We can see the old block house at this park.
6. The Central Pacific Railroad was building a railroad from this town.
7. One of the fastest ways to travel in 1856
8. A word that was the name of Herndon.
9. The number of counties Mariposa was divided into.
10. Fresno County was formed from a part of this county.
11. The miners were searching for this.
12. Fort Miller was named for this man.
13. The name now given to the Central Pacific Railroad.

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9-4-63 - In4-S-C-En-51

S4 - SS - ~~14~~ 16

NAME GAME

Write your answers on another piece of paper.

1. I studied at Harvard University. I came to California and settled near Mt. Diablo. I made friends with the Indians. I was the first white man to ever try building a home in the Central Valley.

   What is my name? ____________________

2. I am a river. Sutter explored me. He built his fort near the place where the American River runs into me.

   What is my name? ____________________

3. I was a citizen of Switzerland before coming to America. I built a fort in California. I built a flour mill at my fort.

   What is my name? ____________________

4. I am a range of mountains. Fremont and Kit Carson crossed over me. Many people passed over me to get to the Central Valley.

   What is my name? ____________________

5. I am an American Army officer. I was sent by the United States Government to explore the West. Andres Pico surrendered to me at Cahuenga Pass.

   What is my name? ____________________

6. I am a flag. A red star is in my corner. A grizzly bear is in my center. The words "California Republic" are written on me.

   What is my name? ____________________

7. I came to California when I was only twenty-one years old. I helped lead a company to California. I went to work for Sutter. I started the town of Chico.

   What is my name? ____________________

Words

Father Serra

John Bidwell

John A. Sutter

Sierra Nevada

Sacramento River

Coast Range

John Marshall

Bear Flag

Kit Carson

Colorado River

Stars and Stripes

John Fremont

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9-4-63
In4-S-C-En-51

S4 - SS - ~~15~~ 17

ROAD MAPS ARE FUN!!

Let's take a trip and use a road map of California. As we travel along through California list the cities you are asked to find for each trip. Write your answers on another piece of paper.

TRIP I.

Travel from Fresno to Shasta Dam. As you go, list as many large cities as you can find on Highway 99.

TRIP II.

Travel by train from Los Angeles to Eureka. List at least 6 big cities you would pass through. (The map on p. 42 in text might help.)

TRIP III.

Travel by boat from San Diego to Crescent City. Name 6 ports at which you might stop on the way.

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9-4-63
In4-S-C-Ma-51

S4 - SS - 16 18

CALIFORNIA TODAY

OUR MOST PRECIOUS RESOURCE

(pp.161-163)

Can you change the spelling of the underlined words to make the correct words to complete the sentences? Write your answers on another piece of paper.

1. Rewat is our most precious usorcere.

2. Water for our cities and farms come from the naceo.

3. Ocean water is sylat.

4. The sun shines over the ocean and it's heat turns some of the water into porva.

5. When water turns to vapor because of heat we say it has portavadee.

6. The air high above the sea is locero than near the water.

7. The cool air changes the vapor into nity pords of rewat.

8. Once the vapor has changed to water we can see it. If it is high in the air we call it slucod.

9. If the vapor is close to the ground we call it gof.

10. The swdin blow in from the sea and keep the coastland loco.

11. During the winter storms much nair falls on the coastland and the trencal lavley.

12. Much of the winter rain flows back into the ase through erecks and srevir.

13. Not all the clouds from the sea are turned into rain. As the clouds are driven over the Sierra Nevada peaks the air is very locd.

14. The rain rezefes and turns into nows that falls on the mountain tops.

15. Forests help save our retwa in two ways. Their deash keeps the snow from the shunesin and the lois acts like a nogsep.

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9-4-63 - In4-S-C-En-51

CALIFORNIA TODAY
REGIONS OF CALIFORNIA
(pp. 29-31)

Can you match each region of the left with the description on the right so that each sentence will be finished correctly? Write your answers on another piece of paper.

____ 1. Central Valley	1. contains many acres of rich farming land.
____ 2. From the snow fields of the Sierra Nevada	2. is rough, dry, and very hot.
____ 3. The long coast region	3. comes much of the water used in California.
____ 4. Our desert land	4. has mountains from the southern to the northern boundary of the state.

Fit the word to the definition to finish each sentence.

____ 1. A drawing, usually on a flat surface, of all or part of the earth's surface is a _ _ _

____ 2. A drawing, showing by lines, shading or color, the different heights of land forms, as hills and valleys is a _ _ _

____ 3. A stretch of lowlands lying between hills or mountains is a _ _ _

____ 4. A natural raised part of the earth's surface larger than a hill is a _ _ _

____ 5. A dry barren region, usually treeless and sandy is a _ _ _

____ 6. Land alongside a seashore is a _ _ _

____ 7. Part of sea indenting the shoreline is a _ _ _

____ 8. A harbor where ships arrive and depart is a _ _ _

____ 9. Anything marking a limit is a _ _ _

____10. A certain part of our state that is different from other parts of the state is called a _ _ _

1. valley
2. desert
3. coast
4. bay
5. relief map
6. port
7. region
8. boundary
9. mountain
10. map

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9-5-63
In4-S-C-En-51